Eagle Tugs

Parts & Service Manual



Vehicle Types: TT-10, TT-12

Engine Type: Ford Gasoline 4.2L V6 Engine Model

INTRODUCTION

From everyone at EAGLE, we would like to say Thank You for purchasing an Eagle TT-series tow tractor. We take a lot of pride in the quality of the products that we build, as well as our continued customer service. Our goal is to build a long term relationship with our customers. We want you, the customer, to be 100% satisfied with your Eagle experience. To us, this means that your Eagle TT-series tractor is functionally superior to any other products you have used. This also means that your Eagle product is continually supported in a professional, timely manner.

PURPOSE & USE OF THIS MANUAL

This manual is designed as a reference guide to make the reader more familiar with the components of the Eagle TT-4, TT-5, TT-6, and TT-8 tow tractor models. This manual includes part numbers and descriptions to assist the reader in ordering component spare/service parts. The manual also outlines the Scheduled Maintenance Intervals recommended by Eagle in order to keep your vehicle running properly. In this manual you will also find the Eagle Standard Warranty on all of the TT-series tow tractors. However, for more detailed information on the Eagle Warranty and procedure, as well as information pertaining to the safe operation of your Eagle product, please see the Eagle Operations Manual that was also included with your vehicle.

TECHNICAL ASSISTANCE

When addressing a repair procedure or operational problem, please remember that Eagle technical support is only a phone call away. Eagle technicians are available to assist you in vehicle diagnostics and recommended repair procedures. We encourage you to use this service to reduce machine down-time and to gain a better understanding of proper repair procedures.

ORDERING SPARE/SERVICE PARTS

Eagle inventories most of the component parts found in its TT-series tow tractors, and most spare/service parts can be shipped the same day the order is received. Parts orders need to be received at Eagle by 12:00 pm (Noon) EST in order for the parts to be shipped that same day. Parts ordered after 12:00 pm EST will most likely be shipped the following day.

CONTACT INFORMATION

Eagle Corporate Office
26111 Northline Rd
Taylor, MI 48180
(800) 671-0431
www.eagletugs.com

Customer Service
customerservice@eagletugs.com
(734) 442-1000 -- (800) 671-0431

Parts & Service
parts@eagletugs.com
(734) 442-1000 -- (800) 671-0431

Technical Support
support@eagletugs.com
(734) 442-1000-- (800) 671-0431

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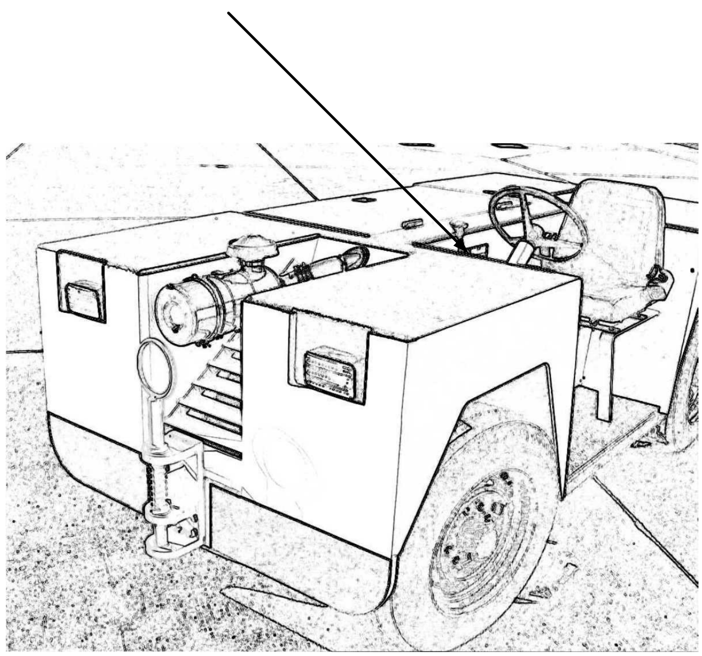
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WARRANTY

VEHICLE ID INFORMATION

This information can be found on the tractor's I.D. Plate located on the firewall next to the driver's seat. Additionally, there is a permanent serial number located on the rear bulkhead inside the engine compartment.

MODEL	
SERIAL #	
MFG DATE	
ENGINE TYPE	
ENGINE SERIAL #	
FORD 2.5L DISTRIBUTOR #	Gas Engine: EC42907; LPG Engine: EC43908



WARRANTY REGISTRATION

Please fill out the engine warranty registration card that comes with your vehicle. This information is needed for completing warranty work on your engine if a problem occurs.

EAGLE STANDARD WARRANTY

Standard Limited Warranty Information*
The Eagle Tugs (EAGLE) Standard Warranty covers all MTT, RTT-series and Transit Pro tow tractors, as well as all Eagle tow tractor models used in industrial applications. Eagle Tugs warrants that these tractors will be free from defects in material and workmanship for a period of 1 year or 2,000 operating hours, with the exception of the electrical system (see electrical component warranty below), from date of delivery to the first customer (or first use), whichever comes first. Written notice of any claimed defect must be given to Eagle within the warranty period and within thirty (30) days after such defect is discovered. Liability under this warranty is limited to either replacing or repairing, at Eagle's election, any part or parts deemed defective after examination by Eagle or an Authorized Service Representative. Any Eagle tractor or any of its parts returned by the customer to Eagle or an Authorized Service Representative via prepaid transportation, and which is found to be defective, will be repaired or replaced and returned to the customer prepaid. On the other hand, should a part be found not defective, inspection and handling charges may be charged to the customer or Authorized Service Representative by Eagle.

Electrical Component Warranty: Electrical components including but not limited to display, starters, alternators and electric fans shall be covered under the respective original manufacturers warranty for each individual component. Copies of the respective warranties are available upon request.

This warranty does not extend to the tires, batteries, and battery chargers as these are warranted directly to the user by their respective manufacturer and not by Eagle or an Authorized Service Representative.

This warranty does not apply to any Eagle tow tractor, or component part(s) that have been subjected to misuse, accident, vandalism, environmental conditions, improper handling or application, maintenance neglect, including lack of lubricants or fluids; nor does it extend to the Eagle tow tractor and/or parts which have been repaired or altered outside of Eagle's plant or the facility of an Authorized Service Representative without the permission of Eagle.

This warranty does not apply to routine maintenance or wearable parts of the Eagle tow tractor such as filters, seals, plugs, hoses, belts, brake pads or shoes, light bulbs, fuses or similar items. Moreover, this warranty does not extend beyond its original term for any Eagle tow tractor or part replaced or repaired under warranty.

This warranty does not cover or provide credit for the following: tractor rental or other substitute equipment; lodging; loss of time, income, sales or profits; loss of the use of tractor; telephone calls or communication expense; lift truck; storage fees; injury or death to persons or damage or destruction of property; or consequential, incidental or punitive damages.

Labor Allowance: A labor allowance may be issued upon request at Eagle's discretion. Allowable labor hours and a per hour labor rate will be determined by Eagle according to reasonable automotive standards.

Warranty Claim Procedure: When a warranty situation arises, it is essential that the customer contact Eagle's Warranty Department at +1 734-442-1000. The customer will need to provide Eagle with the tow tractor serial number and engine hours. A customer service representative will analyze the problem and determine the next steps. In many cases Eagle's technical support personnel will be able to analyze the problem and recommend adjustments that will solve the problem and reduce down time. If further service is required, an Eagle customer service representative will work with customer personnel to arrange a service provider and/or parts be sent to your facility for the repair as quickly as possible.

EXCEPT AS SET FORTH ABOVE, ALL WARRANTIES, CONDITIONS, REPRESENTATIONS, INDEMNITIES AND GUARANTEES, EXPRESS OR IMPLIED, WHETHER ARISING BY STATUTE, CUSTOM OF TRADE OR UNDER ORAL OR WRITTEN STATEMENTS MADE BY OR ON BEHALF OF EAGLE NEGOTIATIONS WITH CUSTOMER, DISTRIBUTOR, DEALER OR ANY REPRESENTATIVE, ARE HEREBY OVERWRITTEN AND EXCLUDED, AND NO LIABILITY SHALL ATTACH TO EAGLE, EITHER IN CONTRACT OR IN TORT, OR STRICT LIABILITY IN TORT, FOR ANY DAMAGE TO PROPERTY, LOSS OF PROFITS, DAMAGES, COSTS, CHARGES, LIABILITY OR EXPENSES, WHETHER DIRECT OR INDIRECT, CONSEQUENTIAL OR OTHERWISE, WHICH ARISE OUT OF OR IN CONNECTION WITH THE SALE OR USE OF ANY EAGLE MACHINE OR THE SUPPLY OF SERVICES.

SUBJECT TO CHANGE WITHOUT NOTICE

Please check our website www.eagletugs.com periodically for service bulletins and manual updates.

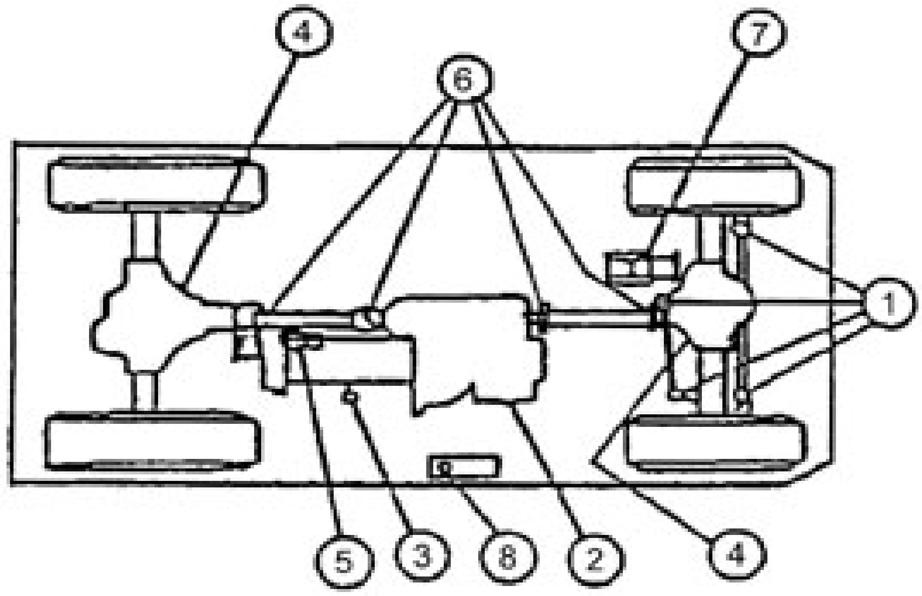
*Note - The Eagle Tugs **3-Year Warranty** covers TT-series, eTT-series, XL-series, eXL-series and USATS tow tractors which are used in aviation applications. All MTT and RTT-series, and Transit Pro models, as well as all Eagle tow tractor models which are used in industrial applications, are covered under the Eagle Standard Warranty of 1 Year or 2,000 hours. Eagle Bob Tails are covered under Ford Motor Company's Standard Warranty for each respective Ford truck model.

SCHEDULED MAINTENANCE

TT 10 & 12 GASOLINE MAINTENANCE INTERVALS

<table>
<tr><th rowspan="2">Interval</th><th rowspan="2">Check/Inspect</th><th rowspan="2">Service</th><th colspan="2">Replace</th></tr>
<tr><th>Part #</th><th>Description</th></tr>
<tr><td>Daily</td><td>-Engine Oil
-Power Steering Fluid
-Transmission Fluid
-Brake Fluid (Master Cylinder)</td><td>-Refill fluid levels as required</td><td>N/A</td><td>N/A</td></tr>
<tr><td>Every 50 Hours</td><td><u>All of the above, plus:</u>
-Valve Cover Gaskets
-Engine Rubber Mountings
-Inlet & Exhaust Pipe to Manifold
-Throttle Controls
-Coolant Levels
-All Hoses for deterioration and/or chafing
-All Belt Drives for wear and proper tension
-Fuel System for leaks
-Electrical System for frayed wires and/or loose connections
Steering Arms Bolts</td><td>-Components that show wear or appear damaged
-Clean engine air cleaner
Re-Torque to 120 Ibs.</td><td>N/A</td><td>N/A</td></tr>
<tr><td>Every 100 Hours</td><td><u>All of the above, plus:</u>
-Battery Cables for Corrosion
Steering Arms Bolts</td><td>-Components that show wear or appear damaged
-Change oil and replace oil filter
Re-Torque to 120 Ibs.</td><td>E4F26731AB</td><td>Oil Filter</td></tr>
<tr><td rowspan="5">Every 500 Hours</td><td rowspan="5"><u>All of the above, plus:</u>
-Drum Brake Linings, Lines & Hoses
Steering Arms Bolts</td><td rowspan="5">-Components that show wear or appear damaged
-Replace Air Cleaner Element
-Replace Fuel Filter
-Replace Transmission Fluid & Filter
-Rotate Tires
Re-Torque to 120 Ibs.</td><td>P14-8966</td><td>Air Cleaner Element 2"</td></tr>
<tr><td>P549271</td><td>Air Cleaner Element 3"</td></tr>
<tr><td>85705</td><td>Trans. Filter & Gasket</td></tr>
<tr><td>F8JL9A011AA</td><td>Fuel Filter</td></tr>
<tr><td></td><td></td></tr>
<tr><td>Every 1000 Hours</td><td><u>All of the above</u>
Steering Arms Bolts</td><td>-Components that show wear or appear damaged
-Replace Hypoid Gear Lubricant in Drive Axles
Re-Torque to 120 Ibs.</td><td>N/A</td><td>N/A</td></tr>
<tr><td rowspan="10">Every 2000 Hours</td><td rowspan="11"><u>All of the above</u>
Steering Arms Bolts</td><td rowspan="11">-Components that show wear or appear damaged
Re-Torque to 120 Ibs.</td><td>RMP-149</td><td>Front Brake Pads</td></tr>
<tr><td>RS358R</td><td>Rear Brake Shoes</td></tr>
<tr><td>F752-8620-BA</td><td>Alternator Belt</td></tr>
<tr><td>A-TT4-00291-5</td><td>Headlight (Pre 12/04)</td></tr>
<tr><td>1157</td><td>Tail Light Bulb</td></tr>
<tr><td>A-TT10-00291</td><td>Headlight</td></tr>
<tr><td>H4</td><td>Headlight bulb</td></tr>
<tr><td>A-TT10-00282-1</td><td>Accelerator Cable</td></tr>
<tr><td>E2JL8A570AA</td><td>Thermostat</td></tr>
<tr><td>F75Z8255AA</td><td>Thermostat Gasket</td></tr>
<tr><td></td><td>N/A</td><td>N/A</td></tr>
</table>

LUBRICATION CHART—TT SERIES-ALL WHEEL DRIVE



Item	Identification	Type Service	Lubricant
1	Steering Linkage	Lube	EP Multipurpose Grease
2	Transmission Oil*	Check	Dextron III
3	Engine Oil	Change	OE/HDO (MIL-L-2104)
4	Drive Axles	Check	GO 80-90 (MIL-L-2105)
5	Power Steering Pump	Check	Power Steering Fluid
6	Drive Shaft	Lube	EP Multipurpose Grease
7	Brake Master Cylinder	Check	Dot 3
8	Engine Coolant	Check	MIL-A-46153 (Ethylene Glycol)

*Check when engine is at operating temperature

Service Parts Illustrations & Detail

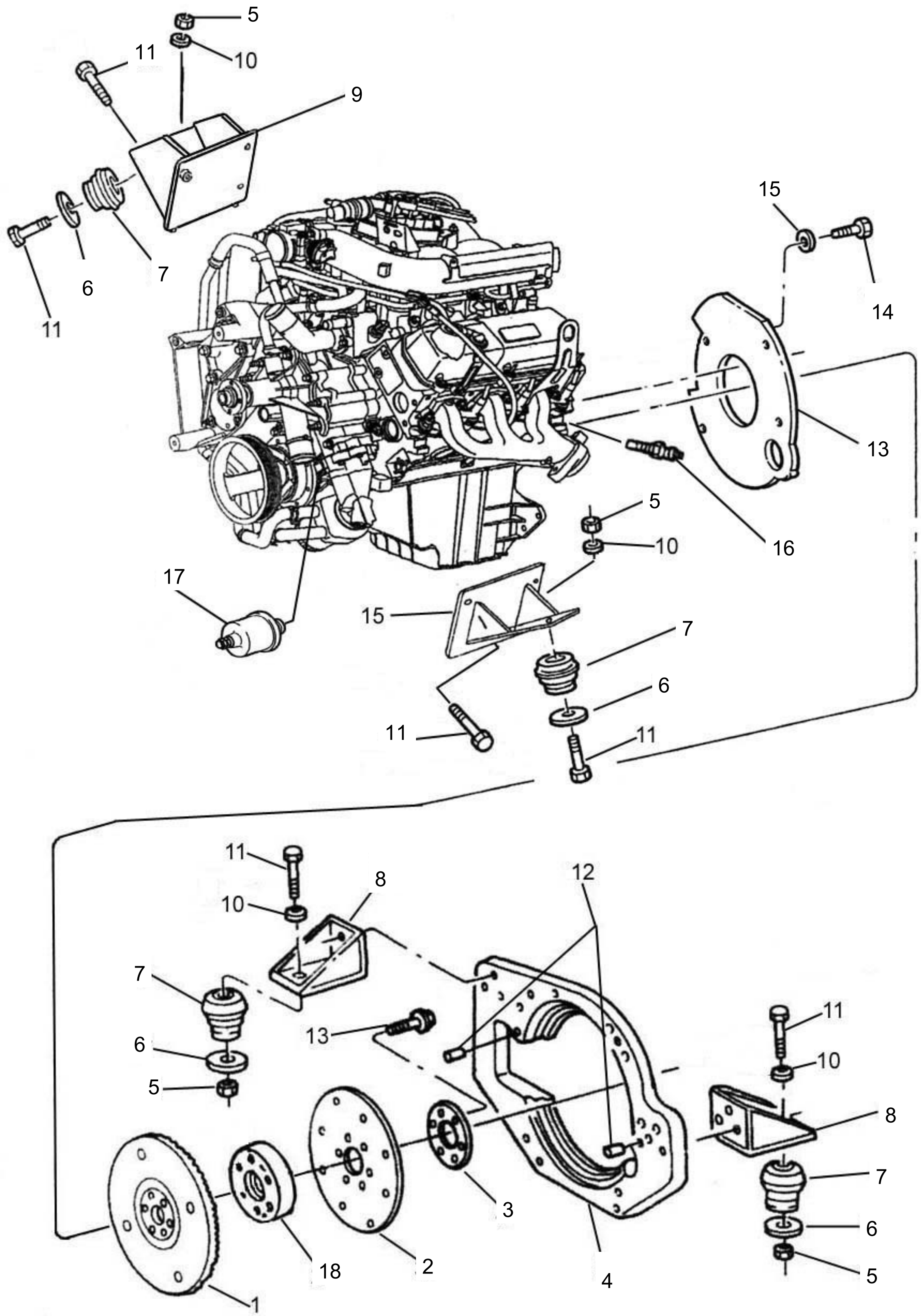
Identification Key

The following abbreviations are used throughout the parts lists in this section.

Abbreviation	Meaning	Purpose
NL	Not Listed	Part required but not shown on diagram
NPN	No Part Number	Parts shown and numbered, but not stocked and sold by Eagle. Typically used for bolts, clamps, etc…
AR	As required	

Power train

ENGINE DRESS—ENGINE TO TRANSMISSION STACK-UP



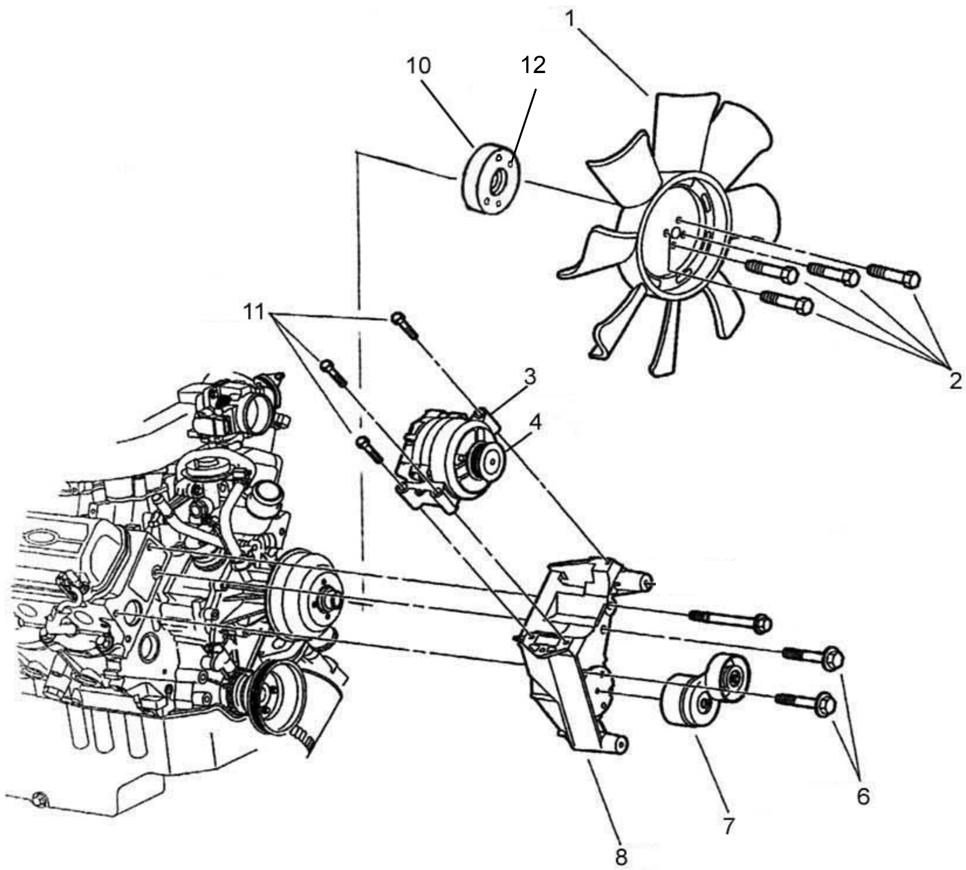
POWER TRAIN

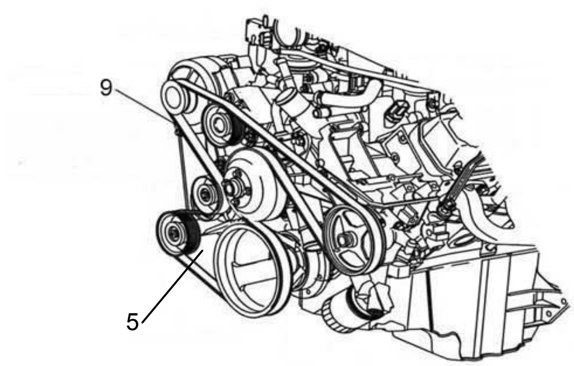
ENGINE DRESS—ENGINE TO TRANSMISSION STACK-UP—DETAIL

Item	Part Number	Qty	Description
1	E5TZ6375G	1	FLY WHEEL
2	B-TT10G-00016-V6	1	FLEX PLATE
3	TM27C00305-V6	1	FLEX PLATE WASHER
4	B-TT10G-00001-V6	1	TRANS PLATE
5	NPN	4	3/4 LOCK NUT
6	A-TT5D-00010	4	LORD WASHER
7	A-TT5D-00013-1	4	ISOLATOR MOUNT
8	B-TT5D-00009	2	TRANS MOUNT
9	NPN	2	MOTOR MOUNTS
10	NPN	4	3/4 WASHER
11	NPN	4	3/4-16X3.5 GR8HCS BOLT
12	5240849	2	DOWEL PINS
13	TMD27B00521-V6	1	ENGINE PLATE
14	NPN	6	10mmX30 ENGINE PLATE BOLTS
15	NPN	6	10mm LOCK WASHER
16	A-TT4-00652	1	WATER TEMP SENSOR
17	A-TT4-00651	1	OIL PRESSURE SWITCH
18	B-TT5G-00017-V6	1	FLEX HUB

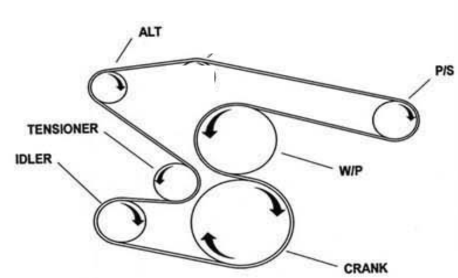
POWER TRAIN

ALTERNATOR, FAN AND BELT CONFIGURATION





▲
**4.2L ENGINE
WITH POWER STEERING**
▼



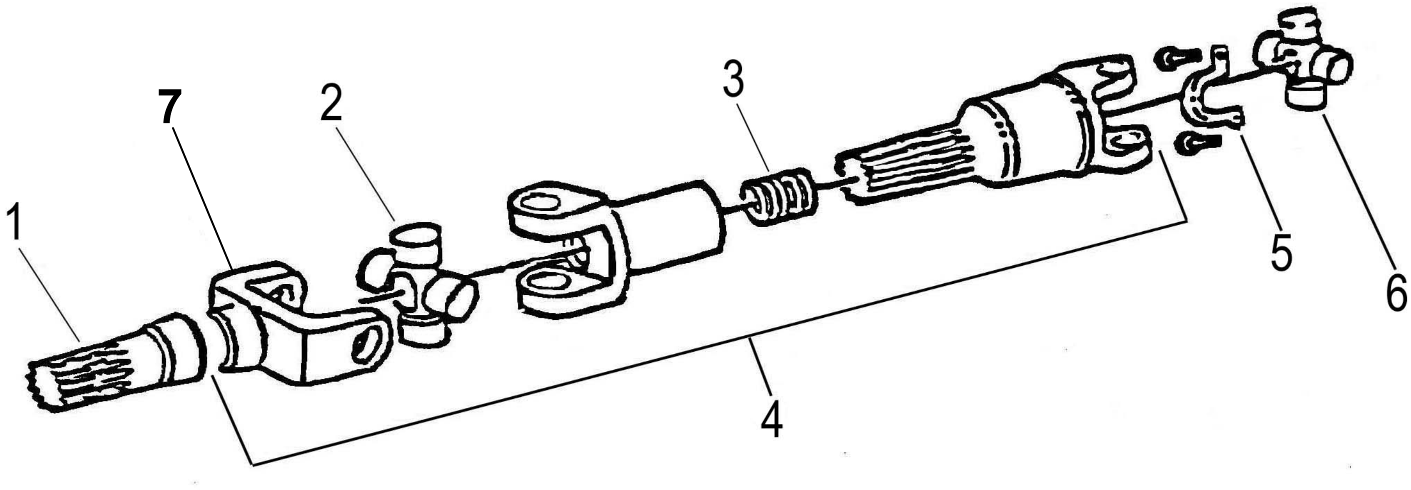
POWERTRAIN

ALTERNATOR, FAN AND BELT CONFIGURATION—DETAIL

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	8944507260	1	FAN
2	NPN	4	BOLT M8X20
3	10346	1	ALTERNATOR
4	10344	1	ALTERNATOR PULLEY
5	A-TT10-00815	1	PULLEY
6	N8088715301	3	BOLT M10X1.5X137 HEX
7	6B209	1	TENSIONER
8	F75Z10A313AA	1	BRACKET - ALTERNATOR MOUNTING
9	F75Z-8620-BA	1	BELT
10	A-TT10-00313	1	FAN SPACER
11	N805424	3	BOLT M10
12	NPN	4	BOLT 8mm-1.25X20

DRIVELINE

DRIVE SHAFT ASSEMBLY—FRONT

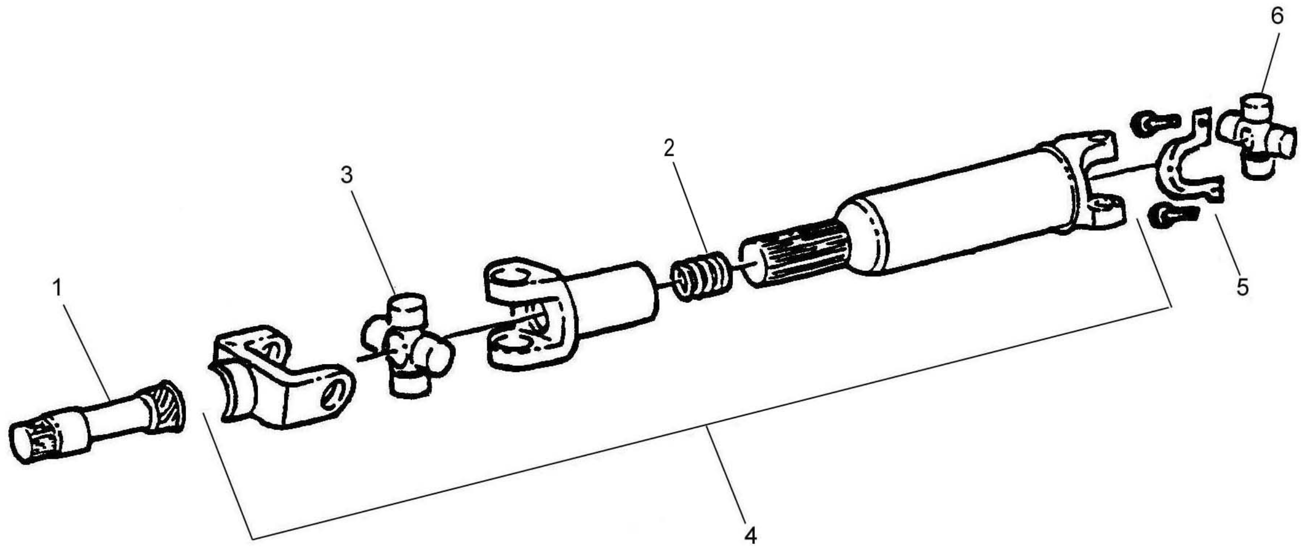


DRIVE SHAFT ASSEMBLY— FRONT DETAIL

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	A-TT8-00201-1	1	TRANSMISSION OUTPUT YOKE SHAFT-FRONT
2	A-TT4-00132-1	1	CROSS BEARING FRONT D/S NEW STYLE
3	A-TT4-00134	1	DRIVE SHAFT SPRING
4	A-TT8-00202-2	1	DRIVE SHAFT
5	A-TT4-00130	2	END YOKE STRAP AND BOLT KIT
6	A-TT4-00137	1	CROSS BEARING FRONT D/S NEW STYLE
7	2-4-1921	1	END YOKE

DRIVELINE

DRIVESHAFT ASSEMBLY—REAR

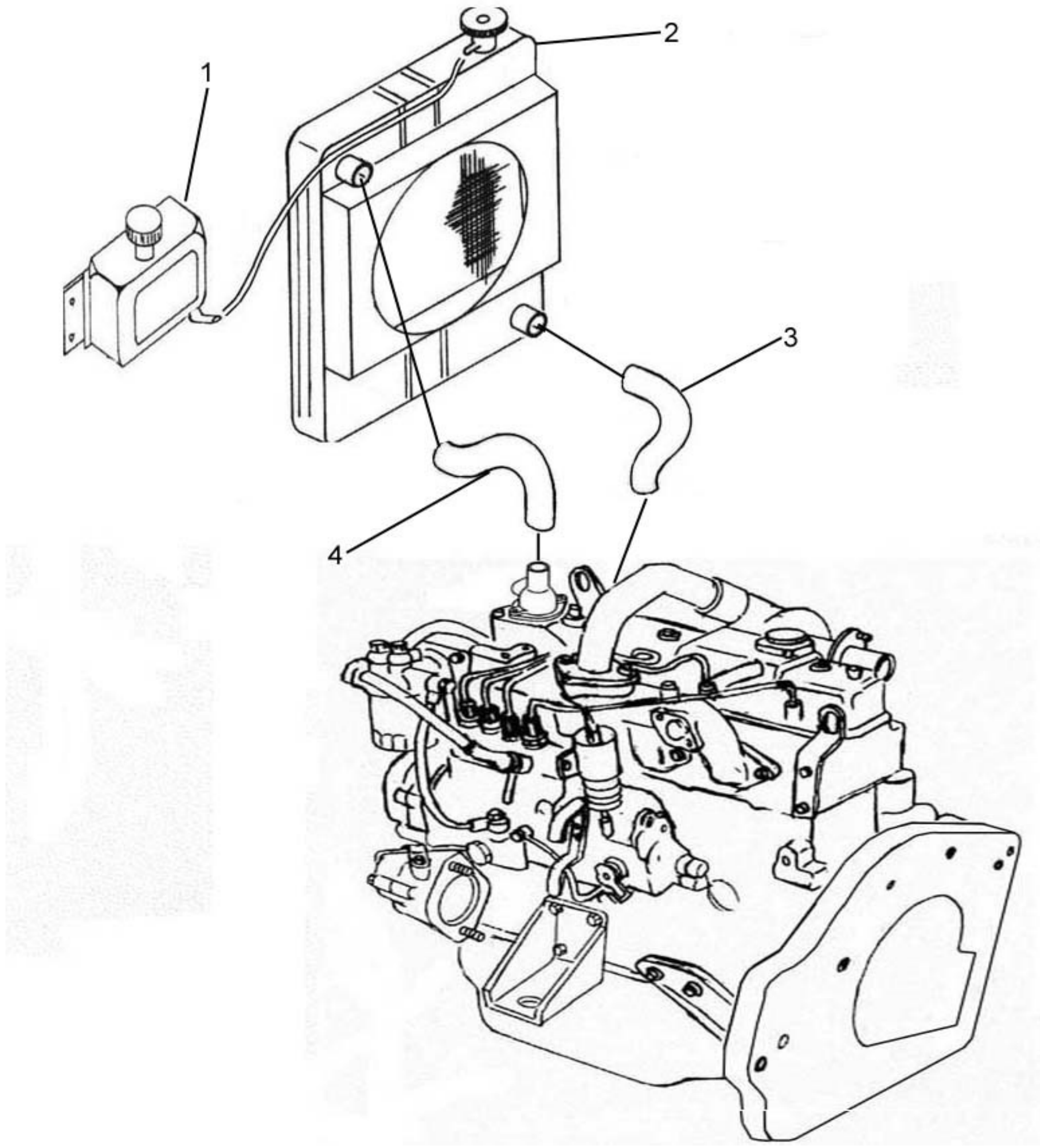


DRIVE SHAFT ASSEMBLY—REAR DETAIL

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	A-TT8-00201-2	1	TRANSMISSION OUTPUT YOKE SHAFT-REAR
2	A-TT4-00134	1	DRIVE SHAFT SPRING
3	A-TT4-00132-1	1	CROSS BEARING FRONT D/S NEW STYLE
4	AB-TT10TG-00130-3	1	DRIVE SHAFT
5	A-TT4-00130	2	END YOKE STRAP KIT
6	A-TT4-00137	1	CROSS BEARING REAR D/S NEW STYLE

Cooling System

COOLING SYSTEM

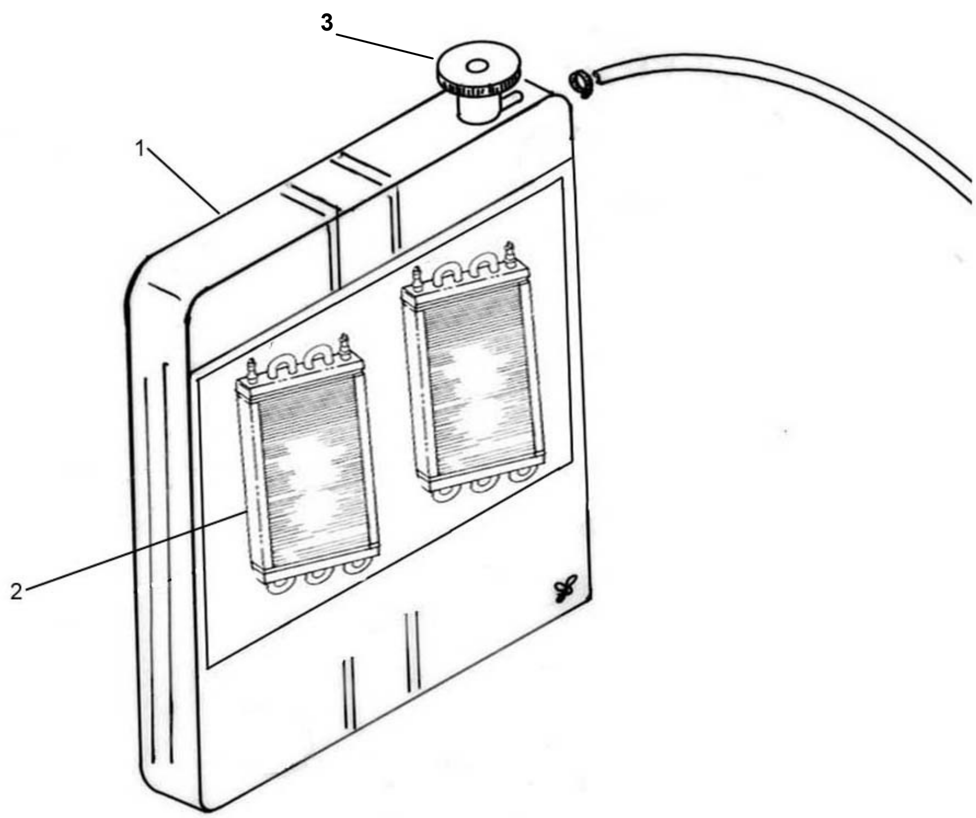


COOLING SYSTEM—DETAIL

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	A-TT10TD-00322	1	SURGE TANK
2	A-TT10F-00311-1	1	RADIATOR
3	A-TT10-00323	1	BOTTOM RADIATOR HOSE
4	A-TT10-00323-1	1	TOP RADIATOR HOSE

TRANSMISSION

COOLING SYSTEM— TRANSMISSION

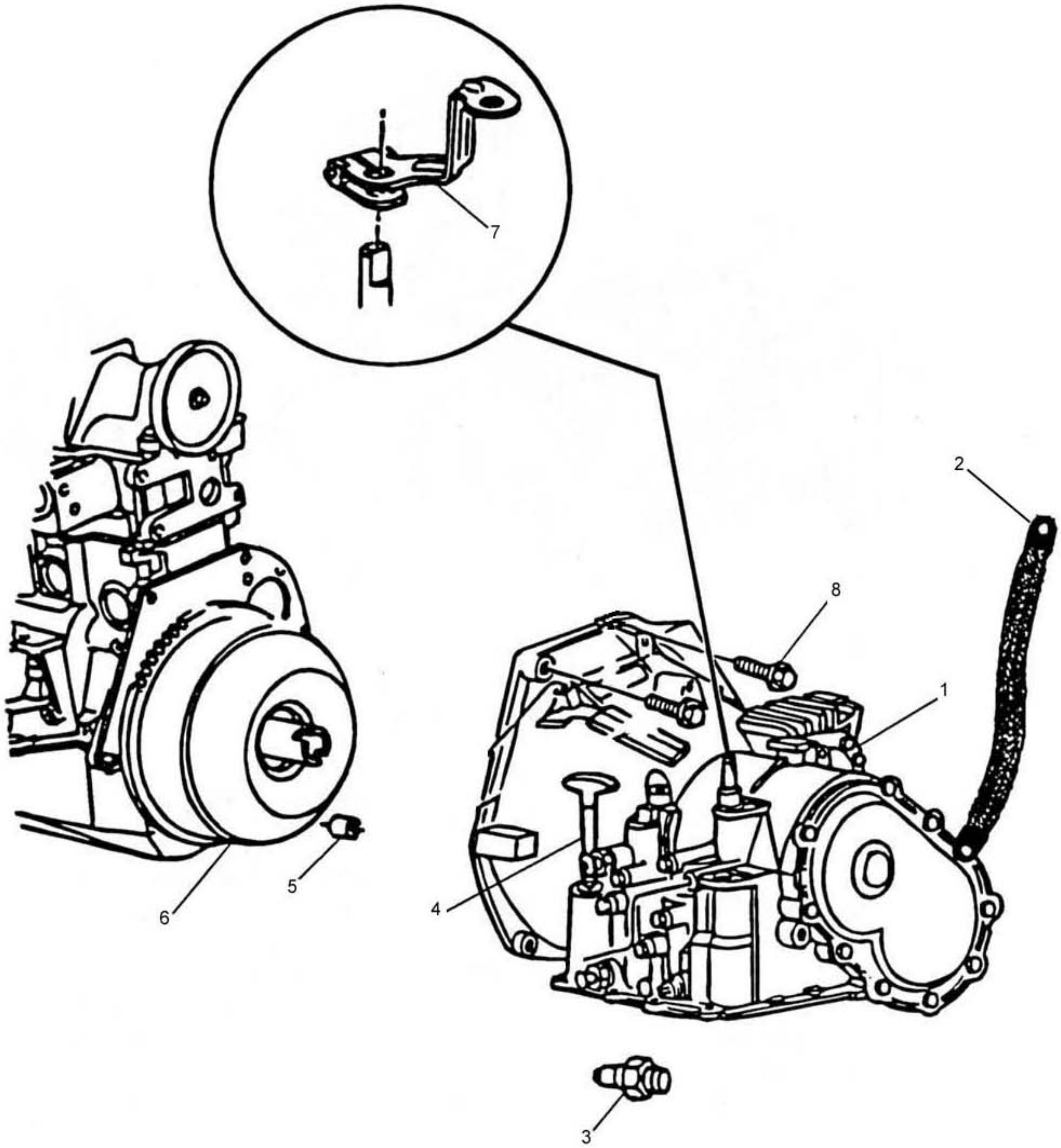


COOLING SYSTEM—TRANSMISSION DETAIL

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	A-TT10F-00311-1	1	RADIATOR
2	A-TT4-00221-1	2	TRANSMISSION COOLER
3	31333	1	RADIATOR CAP

TRANSMISSION

TRANSAXLE MOUNTING & MISC. PARTS



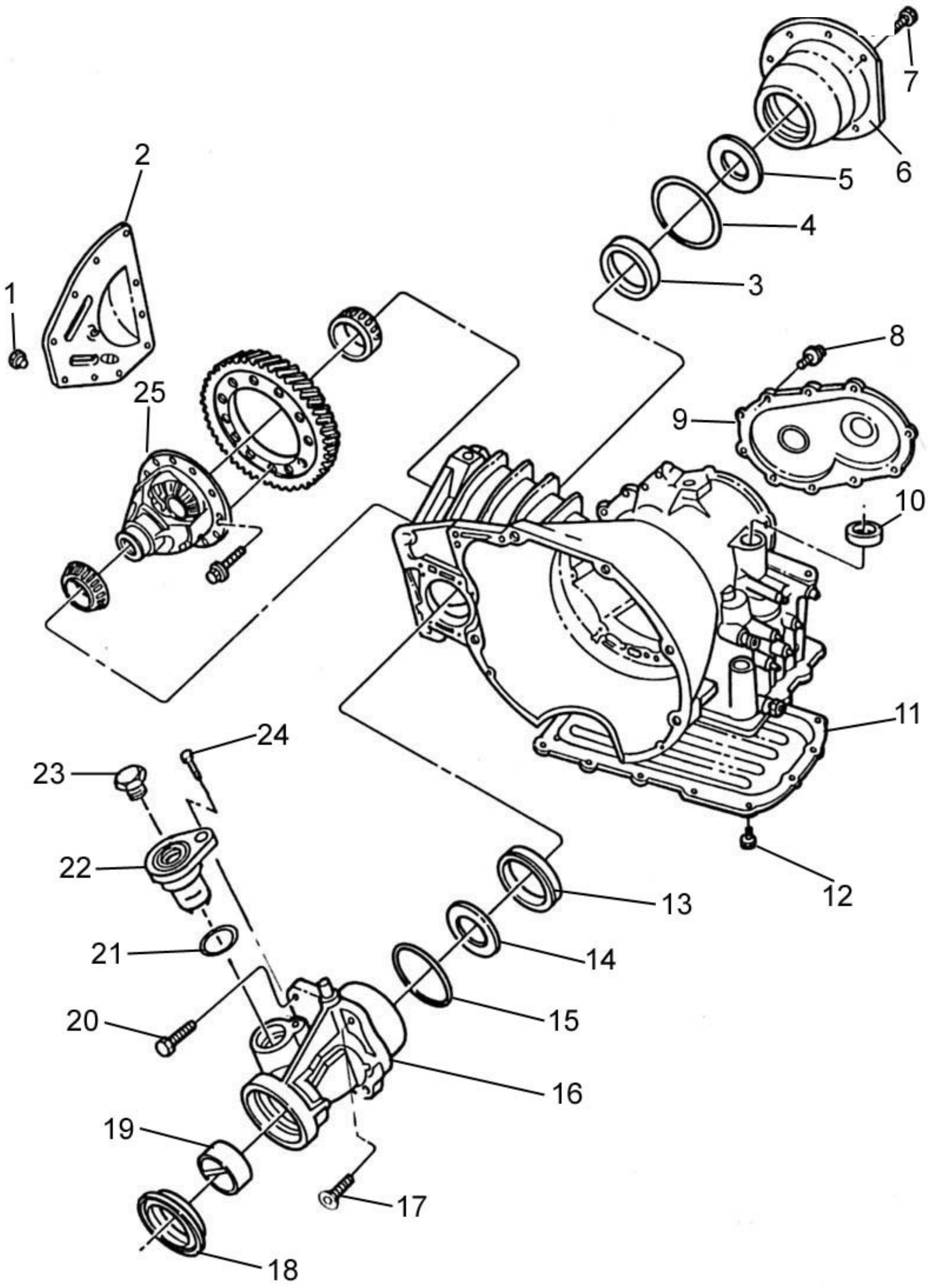
TRANSMISSION

TRANSAXLE MOUNTING & MISC. PARTS DETAIL

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	A-TT5D-0018	1	TRANSAXLE COMPLETE
2	A-TN4-00707	1	GROUND STRAP
3	3747361	1	SWITCH-NEUTRAL STARTER & BACK UP LIGHT
4	4856444	1	INDICATOR-TRANSAXLE FLUID
5	5240849	2	DOWEL PIN-TRANSAXLE TO ENGINE ALIGNMENT
6	4778718	1	TORQUE CONVERTER
7	A-TT4-00419	1	TRANSAXLE SHIFT LEVER-MANUAL CONTROL
8	6501741	*	SCREW-HEX CAP-WITH WASHER M12-1.75 X 30
	85705	*	GASKET & FILTER MAINTENANCE PACKAGE
* CALL EAGLE PARTS DEPT. FOR DETAILS			

TRANSMISSION

TRANSAXLE CASE EXTENTION & RETAINER



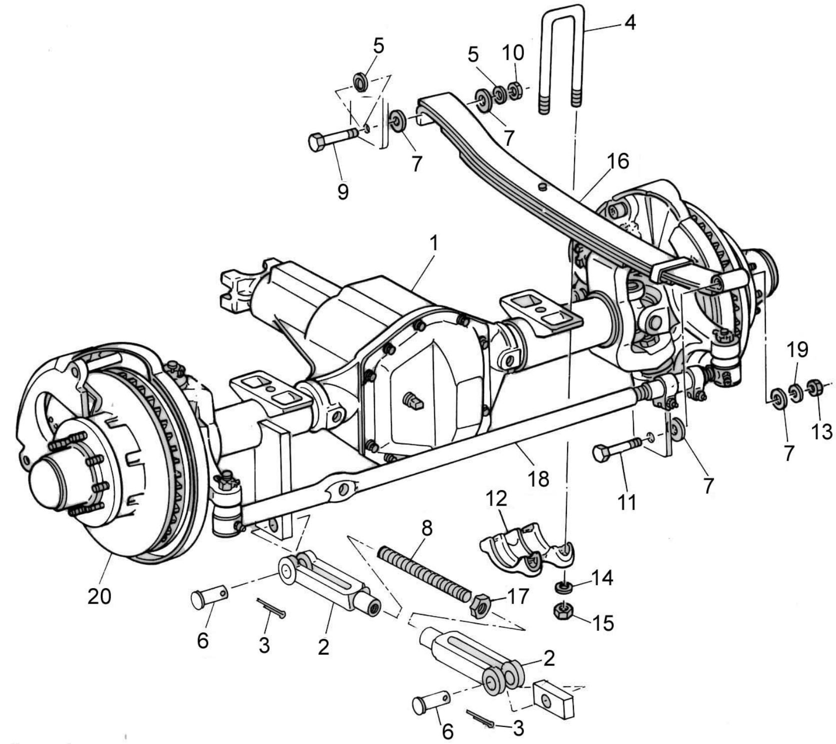
TRANSMISSION

TRANSAXLE CASE EXTENTION & RETAINER - DETAIL

Item	Part Number	Qty	Description
1	6501474	10	SCREW-HEX CAP-W/WASHER M8-1.25 X 16
2	4471573	1	PAN
3	NPN	1	CUP(NOT SOLD SEPARATELY)
4	4504568	1	SPACER KIT
5	4269787	1	RETAINER, OIL
6	4567493	1	RETAINER, BEARING
	6500368	6	SCREW-HEX CAP-M8 X 1.25 X 23
7	NPN	6	SCREW-HEX CAP-WASHER HEAD M8-1.25 X
8	6501474	10	SCREW-HEX CAP M8-1.25 X 15
9	4659342	1	COVER, TRANS. END
	82180	1	GASKET (USE SILICONE ADHESIVE)
	6501474	10	SCREW-HEX CAP W/WASHER M8-1.25 X 16
10	3878447	1	SEAL, MANUAL VALVE SHAFT
11	4471573	1	PAN, TRANSAXLE OIL
12	6101285	1	SCREW-HEX CAP-W/WASHER M6-1 X 16
13	4567022	1	CUP
14	4567494	1	RETAINER
15	6500111	1	O-RING
16	4549219	1	OUTPUT HOUSING
	6500511	4	SCREW-HEX CAP-W/WASHER M8-1.25 X 33
17	NPN	2	M8 HEX HEAD SCREW
18	4412522	1	SEAL
19	NPN	1	BUSHING (SERVICED IN EXT.)
20	NPN	4	SCREW-HEX CAP WASHER HEAD M8-1.25 X
21	5212151	1	O-RING
22	4295857	1	SPEEDOMETER CABLE ADAPTOR
23	NPN	1	SCREW-FLAT HEAD HEX SOCKET M8-1.25 X
24	NPN	1	SCREW-HEX CAP-WASHER HEAD M6-1.0 X
25	A-TT5D-00021	1	DIFFERENTIAL-WELDED SPIDER GEAR

AXLES

AXLE ASSEMBLY—FRONT DRIVE (4WD)

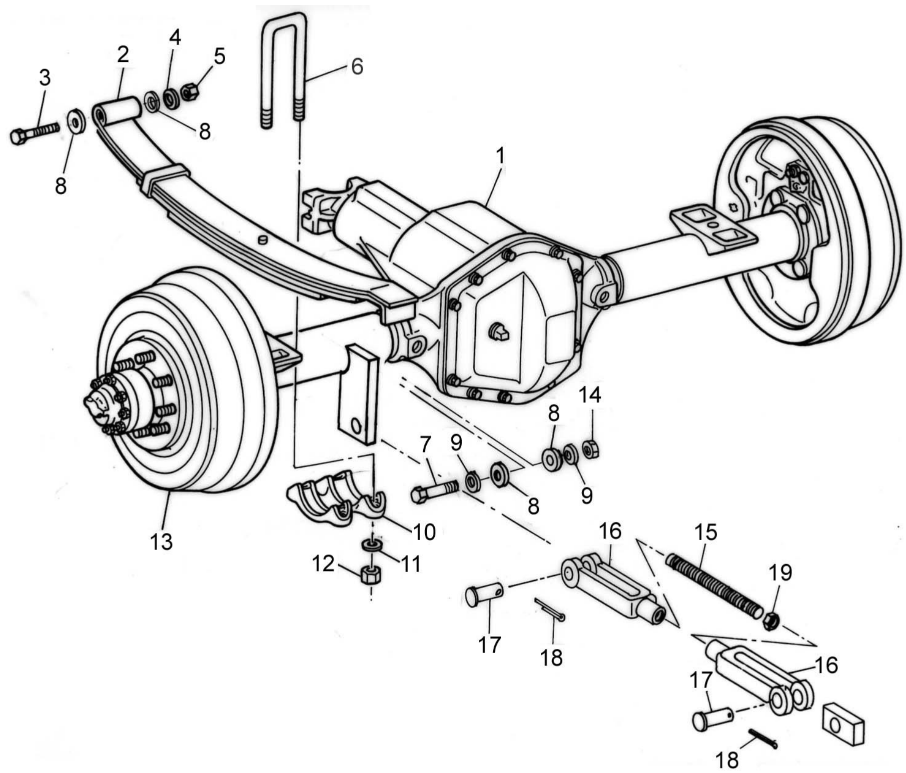


AXLE ASSEMBLY—FRONT DRIVE—DETAIL

1	A-TT10-00371	1	FRONT DRIVE AXLE ASSEMBLY
2	A-TT10-00128	4	CLEVIS
3	NPN	4	COTTER PIN
4	A-TT10-00119	4	U BOLT 5/8-18 TREAD
5	NPN	4	WASHER FLAT 3/8
6	A-TT10-00129	4	CLEVIS-PIN
7	A-TT4-00119	2	WASHER-NYLON
8	NPN	2	THREADED ROD
9	NPN	2	SCREW HEX CAP 3/8-18 X 2-1/2
10	NPN	2	NUT HEX LOCK 3/8-16
11	NPN	2	SCREW HEX CAP 9/16-18
12	A-TT10-00118	2	AXLE CLAMP PLATE
13	NPN	2	NUT HEX LOCK 9/16-18
14	A-TT4-00365	4	WASHER FLAT SPECIAL 3/16" THICK
15	A-TT4-00365	4	NUT HEX HIGH 5/8-18
16	A-TT10-00116	2	LEAF SPRING
17	A-TT4-00407	2	JAM NUT
18	044TR115-24X	1	TIE ROD ASSEMBLY
19	NPN	2	WASHER FLAT 9/16
20	060HU109-X	2	HUB & ROTOR ASSEMBLY

AXLES

AXLE ASSEMBLY— REAR

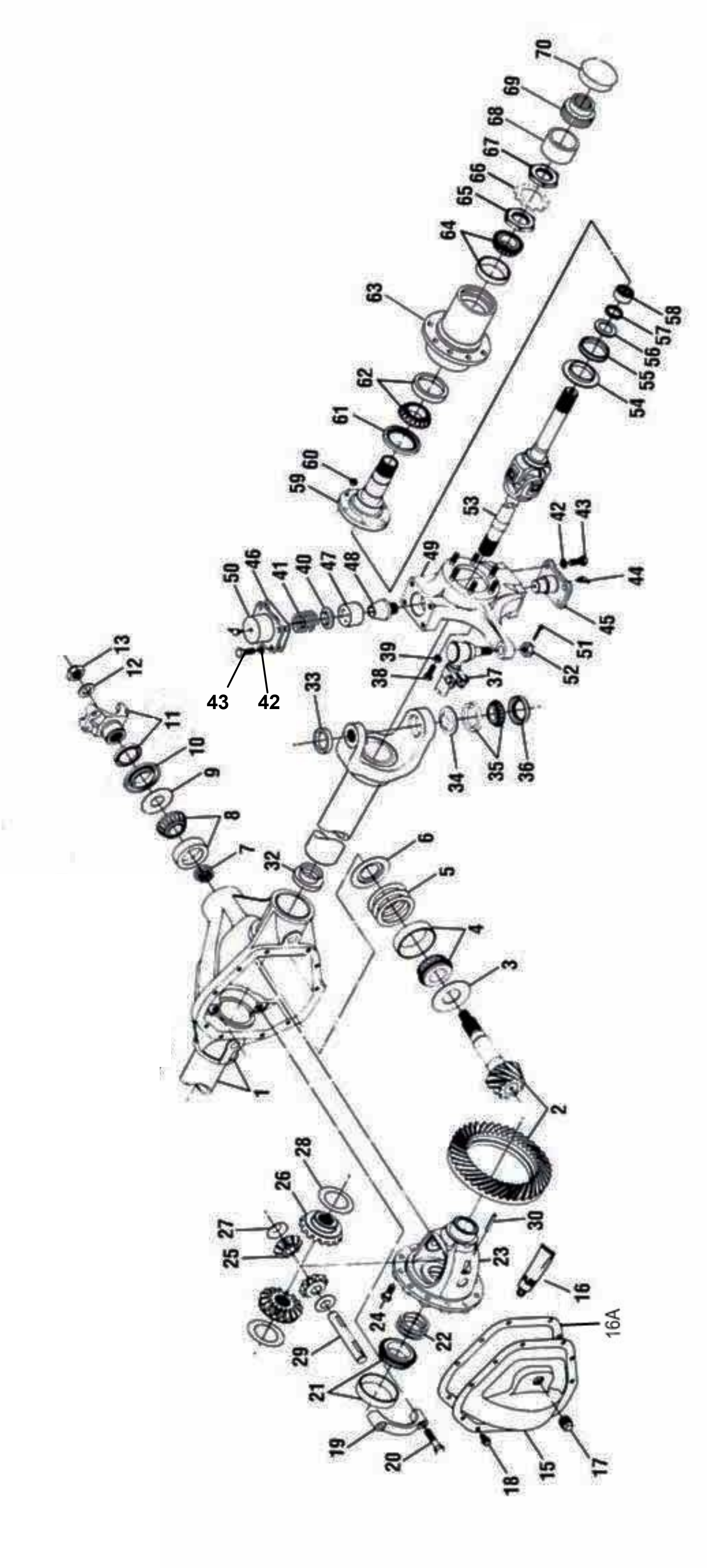


AXLE ASSEMBLY—REAR—DETAIL

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	A-TT10-00361	1	AXLE ASSEMBLY REAR DRIVE
2	A-TT10-00116	1	LEAF SPRING
3	NPN	2	SCREW-HEX CAP 9/16-18 X 4
4	NPN	2	WASHER-FLAT 9/16-18
5	NPN	2	NUT-LOCK 9/16-18
6	A-TT10-00119	4	U-BOLT 5/8-18 THREAD
7	NPN	4	SCREW-HEX CAP 3/8-16 X 2-1/2
8	A-TT4-00119	6	WASHER-NYLON
9	NPN	4	WASHER-FLAT 3/8
10	A-TT4-00363	2	AXLE CLAMP PLATE
11	A-TT4-00366	8	WASHER FLAT SPECIAL 3/16" THICK
12	A-TT4-00365	8	NUT-HEX-HIGH SPECIAL 5/8-18
13	070HU247X	2	BRAKE DRUM-REAR
14	NPN	2	NUT-HEX-LOCK 3/8-16
15	NPN	2	THREADED ROD
16	A-TT10-00128	4	CLEVIS
17	A-TT10-00129	4	CLEVIS PIN
18	NPN	4	COTTER PIN
19	A-TT4-00407	2	JAM NUT

AXLES

AXLE ASSEMBLY BREAKDOWN—FRONT DRIVE (4WD)



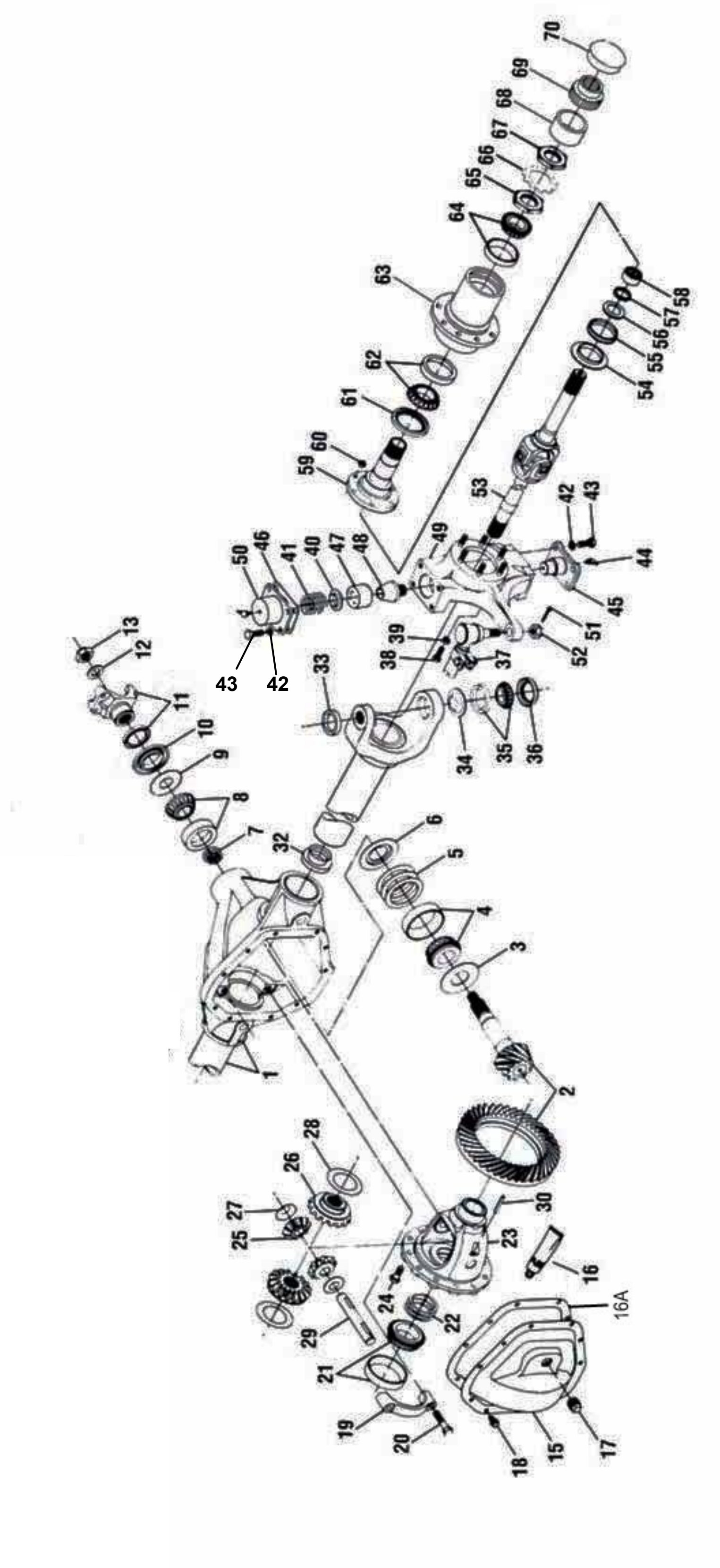
AXLES

AXLE ASSEMBLY BREAKDOWN—FRONT DRIVE—DETAIL

Item	Part Number	Qty	Description
1	A-TT10-00371	1	COMPLETE AXLE ASSEMBLY
2	706999-14X	1	GEAR & PINION ASSEMBLY
3	*SEE KIT	1	SLINGER-PINION OIL INNER
4	706060X	KIT	INNER PINION BEARING
5	*SEE KIT	KIT	SHIM-PINION ADJUSTING
6	*SEE KIT	1	BAFFLE-PINION OIL
7	*SEE KIT	KIT	SHIM-PINION BEARING ADJUSTING
8	706045X	KIT	OUTER PINION BEARING
9	*SEE KIT	1	SLINGER-PINION OIL OUTER
10	35725	1	SEAL-OIL
11	345731X	1	END YOKE ASSY
12	30275	1	WASHER-PINION NUT
13	30271	1	NUT-PINION
15	73591X	1	COVER - CARRIER
16	82180	1	RTV SEALANT
16A	39697	1	GASKET
17	36472	1	PLUG-PIPE SQ DRIVE
18	34822	10	SCREW-FLANGE HD
19	NOT SOLD SEPERATELY	2	CAP DIFFERENTIAL BEARING
20	500400-20	2	1/2-13 X 2.25 GRD8 HEX BOLT
21	706047X	KIT	DIFFERENTIAL BEARING
22	*SEE KIT	KIT	DIFFERENTIAL SHIM
23	*SEE KIT	1	CASE-DIFFERENTIAL ASSY
24	30266	10	SCREW-HEX
25	*SEE KIT	2	PINION-DIFFERENTIAL
26	*SEE KIT	2	GEAR-DIFFERENTIAL KIT
27	*SEE KIT	2	THRUST WASHER DIFFERENTIAL PINION
28	*SEE KIT	2	THRUST WASHER DIFFERENTIAL GEAR
29	*SEE KIT	1	SHAFT-DIFFERENTIAL
30	500598-22	1	PIN-ROLL
31	16979	1	VENT PLUG
32	37275	2	SEAL & GUIDE-SHAFT
33	SEE KIT 706395-X	2	SEAL-KING PIN
34	SEE KIT 706395-X	2	RETAINER
35	SEE KIT 706395-X	2	BEARING KING PIN
36	37306	1	OIL SEAL
37	044TR115-24X	2	TIE ROD ASSY
38	310026-2	2	BOLT STOP
39	500381-3	2	JAM NUT
40	620180	2	RETAINER- COMPRESSION SPRING
41	37300	2	COMPRESSION SPRING
42	500357-13	8	LOCK WASHER
43	500412-12	8	BOLT-KING PIN BEARING CAP
44	500175-1	2	FITTING - LUBRICATION
45	37299	2	KING PIN CAST
46	37307	2	GASKET - KING PIN CAP
47	41886	2	BUSHING - KING PIN
48	37302	2	KING PIN
49	73948-X	1	RIGHT HAND STEERING KNUCKLE

AXLES

AXLE ASSEMBLY BREAKDOWN—FRONT DRIVE (4WD)



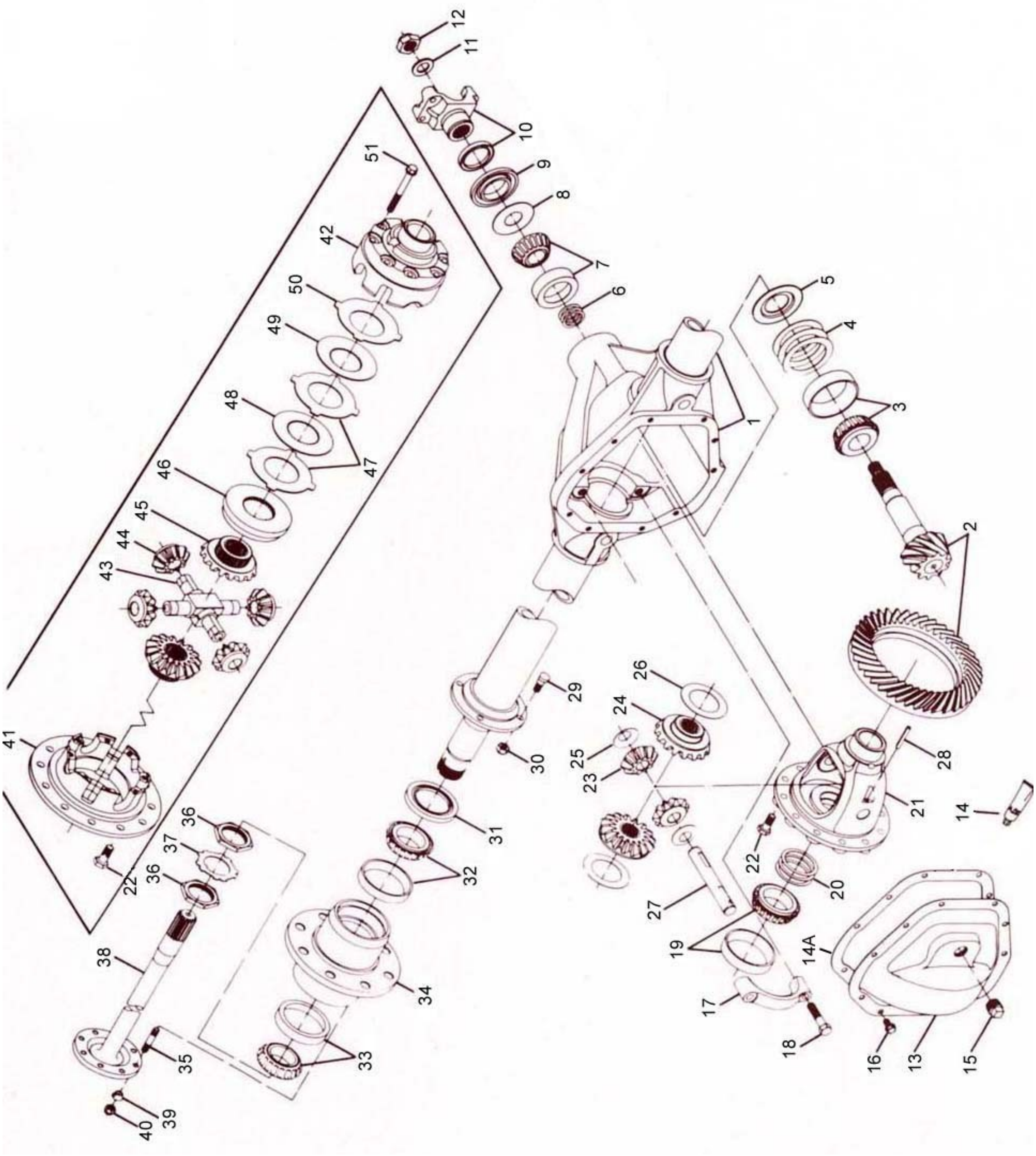
AXLES

AXLE ASSEMBLY BREAKDOWN—FRONT DRIVE—DETAIL

49	070SK193-X	1	LEFT HAND STEERING KNUCKLE
50	620132	2	CAP - KING PIN BEARING
51	500024-5	2	COTTER PIN
52	34800	2	NUT
53	907967-5	2	SHAFT AND JOINT ASSY
54	37308	2	SLINGER
55	37311	2	OIL SEAL
56	*SEE KIT	2	SPACER
57	*SEE KIT	2	SEAL
58	*SEE KIT	2	BEARING ASSY - NEEDLE
59	*SEE KIT	2	WHEEL BEARING SPINDLE ASSY
60	36880	12	SPINDLE NUT
61	37729	2	SEAL
62	706411X	2	INNER WHEEL BEARING
63	060HU109-X	2	WHEEL HUB
64	706074X	2	OUTER WHEEL BEARING
65	35270	2	NUT
66	35269	2	LOCK-WHEEL BEARING ADJUSTING NUT
67	35270	2	NUT
68	37997	2	SPACER - DRIVE GEAR
69	37994	2	GEAR - DRIVE
70	37996	2	HUB CAP
KIT	706999-14X	KIT	DRIVE GEAR AND PINION ASSY INCLUDES 2-10, 12,13,16,22,24
KIT	72162X	KIT	DRIVE GEAR AND PINION INCLUDES 2,13
KIT	706602X	KIT	DIFFERENTIAL PARTS (STANDARD) 16,24-30
KIT	706601X	KIT	DIFFERENTIAL PARTS (LIMITED SLIP) INCLUDES 16,24,74-81
KIT	706354X	KIT	DIFFERENTIAL DISC AND PLATES(LIMITED SLIP) INCLUDES 78-81
KIT	706603X	KIT	PINION AND BEARING ADJUSTING SHIMS INCLUDES 5,7,12,13,16
KIT	706604X	KIT	DIDDERENTIAL ADJUSTING SHIMS INCLUDES 16,22
KIT	706605X	KIT	DIFFERENTIAL AND PIONION SHIMS 5,7,12,13,16,22
KIT	700013	KIT	SPINDLE ASSY INCLUDES 55-58
KIT	700014	KIT	SPINDLE SEAL AND BEARING INCLUDES 55-58
KIT	660202-38	KIT	GEAR COVER ASSY INCLUDES 15-18

AXLES

AXLE ASSEMBLY BREAKDOWN—REAR DRIVE



*41-51 Special order limited slip kit call EAGLE for replacement

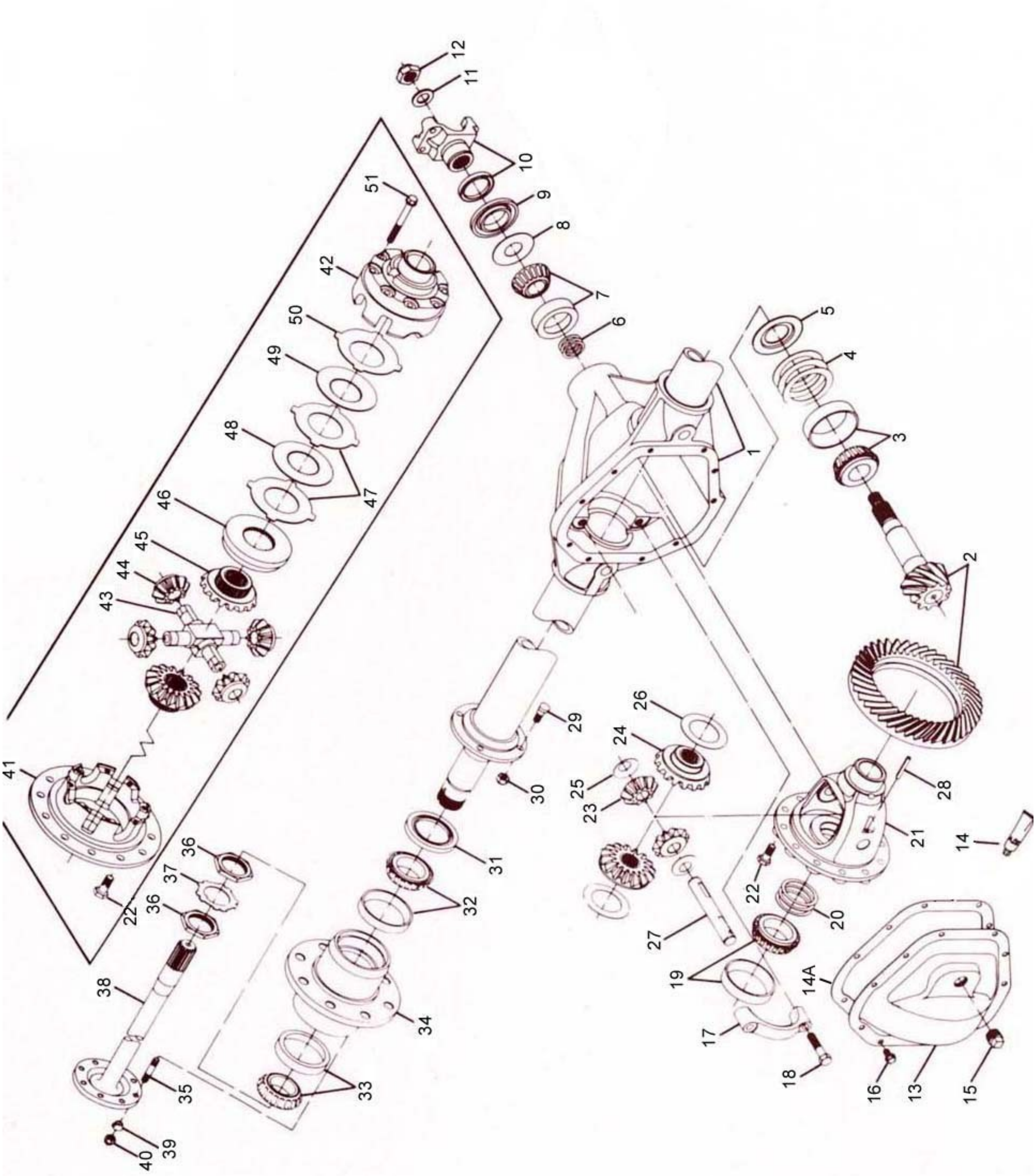
AXLES

AXLE ASSEMBLY BREAKDOWN—REAR DRIVE—DETAIL

Item	Part Number	Qty	Description
1	A-TT10-00361	1	COMPLETE AXLE ASSEMBLY
2	72165-5X	KIT	DRIVE GEAR & PINION
3	706060X	KIT	INNER PINION BEARING
4	*SEE KIT	KIT	SHIM-DRIVE PINION ADJUSTING
5	34849	1	BAFFLE-PINION BEARING
6	*SEE KIT	KIT	SHIM-PINION BEARING ADJUSTING
7	706045X	KIT	OUTER PINION BEARING
8	39238	1	SLINGER-PINION BEARING
9	38427	1	SEAL-PINION
10	345731X	1	END YOKE ASSEMBLY
11	30275	1	WASHER-PINION NUT
12	30271	1	NUT-PINION
13	73591-X	1	COVER ASSEMBLY
14	82180		RTV SEALANT
14A	39697	2	GASKET
15	98785	1	PLUG-PIPE SLOTTED
16	36472	10	SCREW-FLANGE HD
17	N/A	1	CAP DIFFERENTIAL BEARING
18	500400-20	2	1/2-13 x 2.25 GRD8 BOLT BEARING CAP
19	706047X	KIT	BEARING
20	*SEE KIT	KIT	SHIM-DIFFERENTIAL BEARING
21	*SEE KIT	KIT	CASE-DIFFERENTIAL
22	30266	KIT	BOLT-DRIVE GEAR
23	*SEE KIT	KIT	PINION-DIFFERENTIAL
24	*SEE KIT	KIT	GEAR-DIFFERENTIAL
25	*SEE KIT	KIT	THUST WASHER-PINION
26	*SEE KIT	KIT	THRUST WASHER-GEAR
27	*SEE KIT	KIT	SHAFT-DIFFERENTIAL
28	500598-22	1	LOCK-DIFFERENTIAL
29	33694	8	BOLT-BRAKE MANUFACTURING
30	36880	8	NUT-BRAKE MANUFACTURING
31	35256	2	SEAL-OIL
32	706073X	KIT	INNER WHEEL BEARING
33	706074X	KIT	OUTER WHEEL BEARING
34	070HU247-X	2	HUB & DRUM ASSEMBLY
35	36847	8	STUD-HUB
36	35270	4	NUT-SPINDLE
37	35269	2	LOCK WASHER WHEEL BEARING
38	070SR124-1	2	SHAFT-AXLE FLANGE LONG
39	31534	16	ADAPTER-STUD
40	36805	24	NUT-LOCK
	16979	1	VENT
KIT	706603X	2	PINION & BEARING ADJ SHIMS 4,6,11,12,14
KIT	706609X	2	DIFFERENTIAL CASE ASSY (STAND) 14,19-28

AXLES

AXLE ASSEMBLY BREAKDOWN—REAR DRIVE



*41-51 Special order limited slip kit call EAGLE for replacement

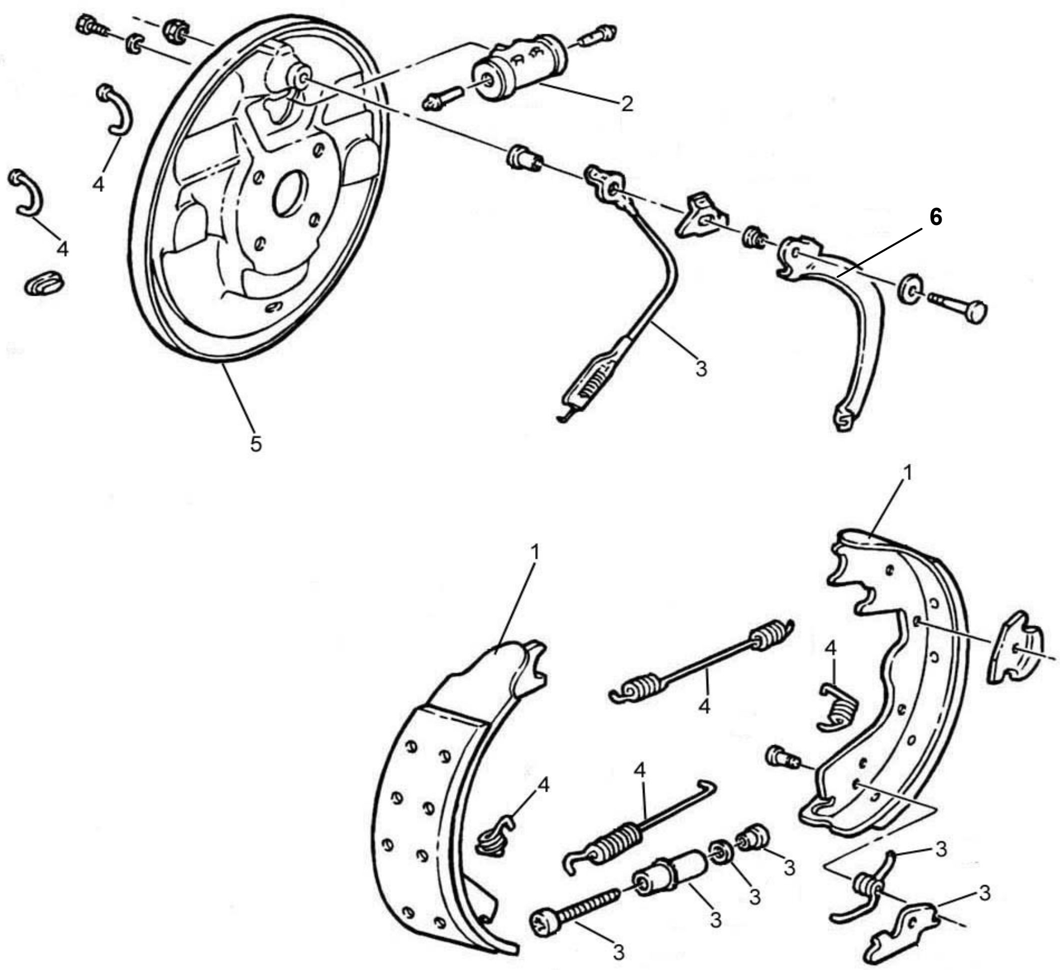
AXLES

AXLE ASSEMBLY BREAKDOWN—REAR DRIVE—DETAIL

Item	Part Number	Qty	Description
41	SEE KIT LIMITED SLIP	1	FLANGE HALF - DIFFERENTIAL CASE
42	SEE KIT LIMITED SLIP	1	CAP HALF - DIFFERENTIAL CASE
43	SEE KIT LIMITED SLIP	1	SHAFT - DIFFERENTIAL
44	SEE KIT LIMITED SLIP	1	PINION - DIFFERENTIAL
45	SEE KIT LIMITED SLIP	1	GEAR - DIFFERENTIAL
46	SEE KIT LIMITED SLIP	1	RING - DIFFERENTIAL GEAR
47	SEE KIT LIMITED SLIP	1	PLATE - DIFFERENTIAL
48	SEE KIT LIMITED SLIP	1	DISC - DIFFERENTIAL
49	SEE KIT LIMITED SLIP	1	DISC
50	SEE KIT LIMITED SLIP	1	PLATE
51	30836-1	8	BOLT - DIFFERENTIAL CASE
KIT	706999-15X	2	DRIVE GEAR AND ;PINION ASSY 2-9, 11-12,
KIT	72165X	2	DRIVE GEAR AND PINION 2,12
KIT	706625X	2	DIFFERENTIAL CASE (STANDARD) 14A, 20-22, 28
KIT	706602X	2	DIFFERENTIAL INNER PARTS (STANDARD) 14A, 22-28
KIT	706601X	2	DIFFERENTIAL INNER PARTS (LIMITED SLIP) 14A, 45-51
KIT	706354X	2	DIFFERENTIAL DISC AND PLATES (LIMITED SLIP) 48-50
KIT	706604X	2	DIFFERENTIAL ADJUSTING SHIMS 14A, 20
KIT	706605X	2	DIFFERENTIAL AND PINION SHIMS 4, 6, 11-12, 14A, 20

BRAKES

BRAKE ASSEMBLY—REAR

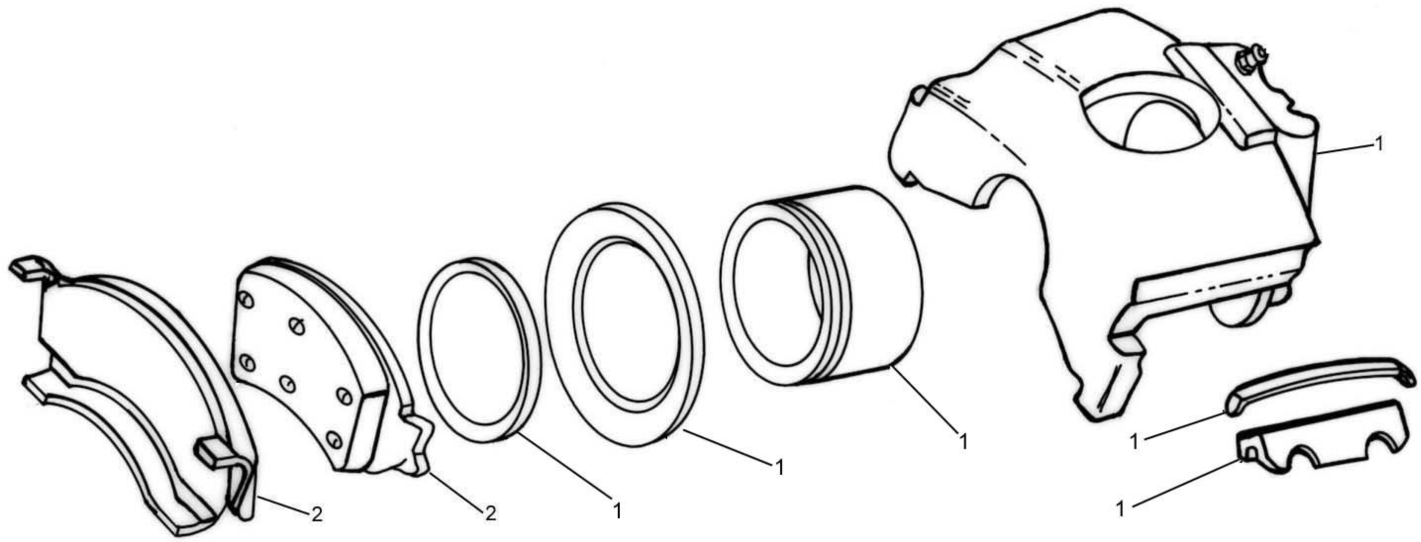


BRAKE ASSEMBLY REAR—DETAIL

Item	Part Number	Qty	Description
1	RS358R	1	SHOES-REAR AXLE SET
2	EW-155068	1	CYL. WHEEL - LEFT
	EW-155069	1	CYL. WHEEL - RIGHT
3	H2598	1	KIT - ADJUSTER - LEFT
	H2599	1	KIT - ADJUSTER - RIGHT
4	H7199	1	KIT - SPRING REAR AXLE SET
5	4313905	1	LEFT BACKING PLATE
	4313904	1	RIGHT BACKING PLATE
6	4419698	1	PARKING BRAKE SHOE ARM
	070WD107-1	1	BRAKE ASSY LEFT
	070WD107-2	1	BRAKE ASSY RIGHT

BRAKE

BRAKE CALIPER ASSEMBLY—FRONT

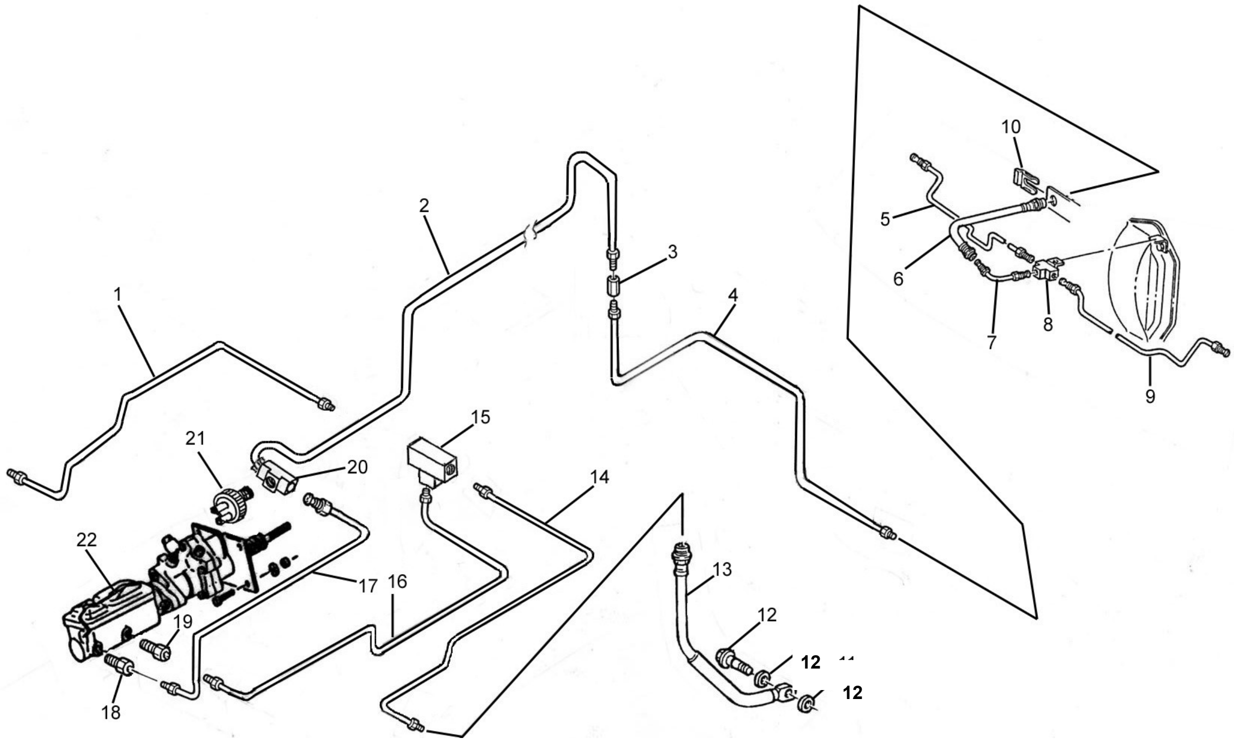


BRAKE CALIPER ASSEMBLY—FRONT—DETAIL

Item	Part Number	Qty	Description
1	18-4167	1	ASSEMBLY - CALIPER L/H
	18-4166	1	ASSEMBLY - CALIPER R/H
2	RMP-149	1	KIT - DISK PADS FRONT

BRAKES

BRAKE SYSTEM—HYDRAULIC

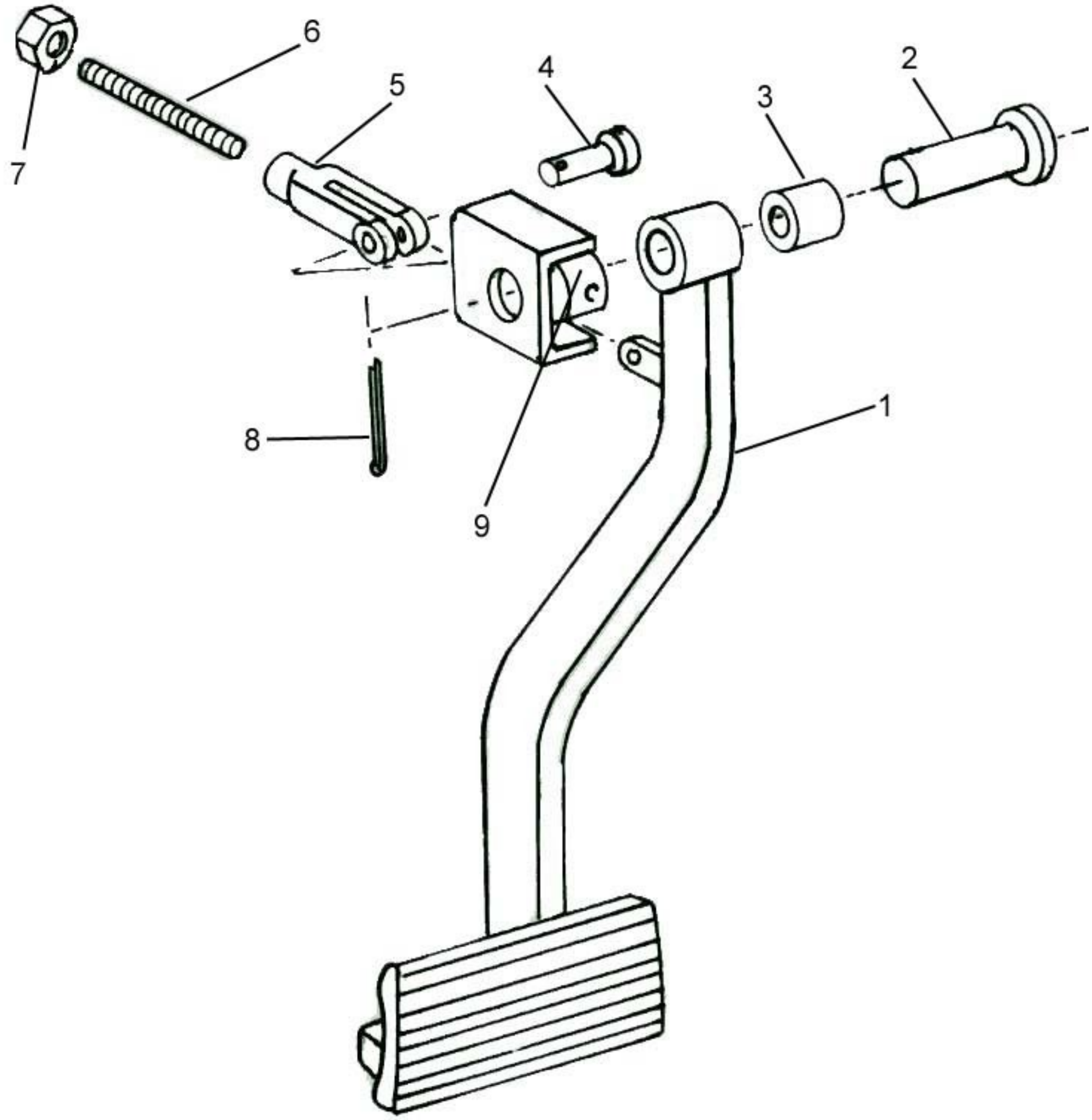


BRAKE SYSYEM—HYDRAULIC—DETAIL

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	A-TT10-00177	1	BRAKE LINE
2	A-TT10-00164	1	BRAKE LINE
3	302X3	1	UNION
4	A-TT10-00182	1	BRAKE LINE
5	A-TT10-00169	1	BRAKE LINE RIGHT REAR
6	A-TT4-00166	1	REAR BRAKE HOSE
7	A-TT4-00167	1	BRAKE LINE
8	A-TT4-00168	1	REAR BRAKE TEE
9	A-TT10-00170	1	BRAKE LINE
10	A-TT4-00165	3	BRAKE LINE CLIP
11	A-TT4-00179	4	BANJO BOLT WASHER
12	A-TT4-00178	2	BANJO BOLT & WASHER SET
13	A-TT4-00176-2	2	BRAKE LINE HOSE
14	A-TT10-00175	1	BRAKE LINE RIGHT FRONT
15	A-TT4-00174	1	BRAKE LINE TEE
16	A-TT10-00171	1	BRAKE LINE FRONT
17	A-TT10-00162	1	BRAKE LINE
18	A-TT5-00181	1	FITTING
19	A-TT5-00180	1	FITTING
20	A-TT4-00163	1	BRAKE LIGHT SWITCH TEE
21	A-TT4-00173	1	BRAKE LIGHT SWITCH
22	A-TT4-00161	1	MASTER CYLINDER
* CALL EAGLE PARTS DEPT. FOR DETAILS			

BRAKES

BRAKE ACTUATOR ASSEMBLY

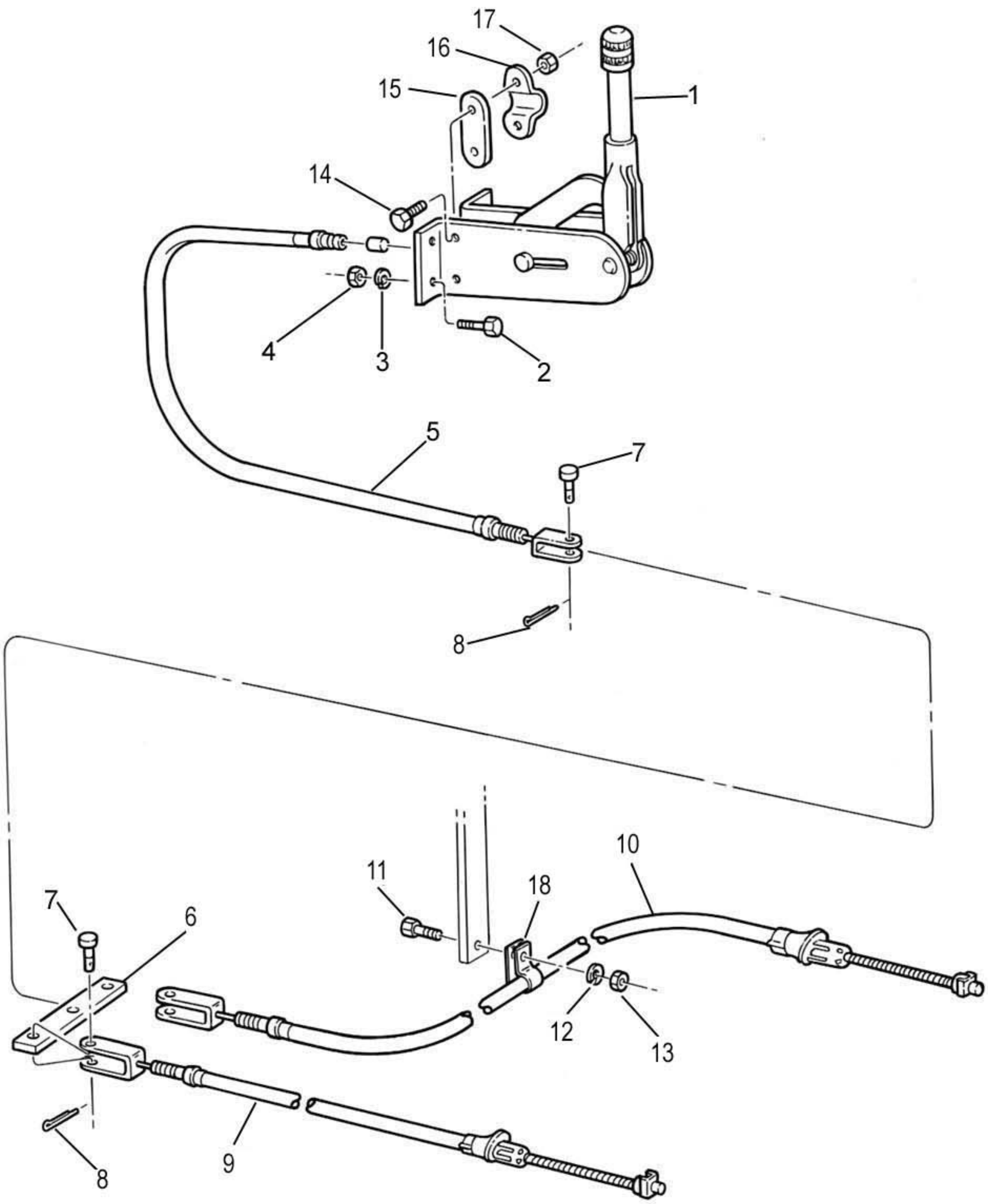


BRAKE ACTUATOR ASSEMBLY—DETAIL

Item	Part Number	Qty	Description
1	C-TT4-10181	1	BRAKE PEDAL
2	C-TT4-10182	1	BRAKE PEDAL PIVOT SHAFT
3	C-TT4-10188	1	BEARING
4	NPN	1	CLEVIS PIN
5	A-TT4-10192	1	CLEVIS
6	NPN	1	½-20 X 12 ADJUSTING ROD
7	NPN	1	½-20 NUT
8	NPN	1	COTTER PIN
9	A-TT2-0057	1	BEARING

BRAKES

PARKING BRAKE ACTUATOR ASSEMBLY



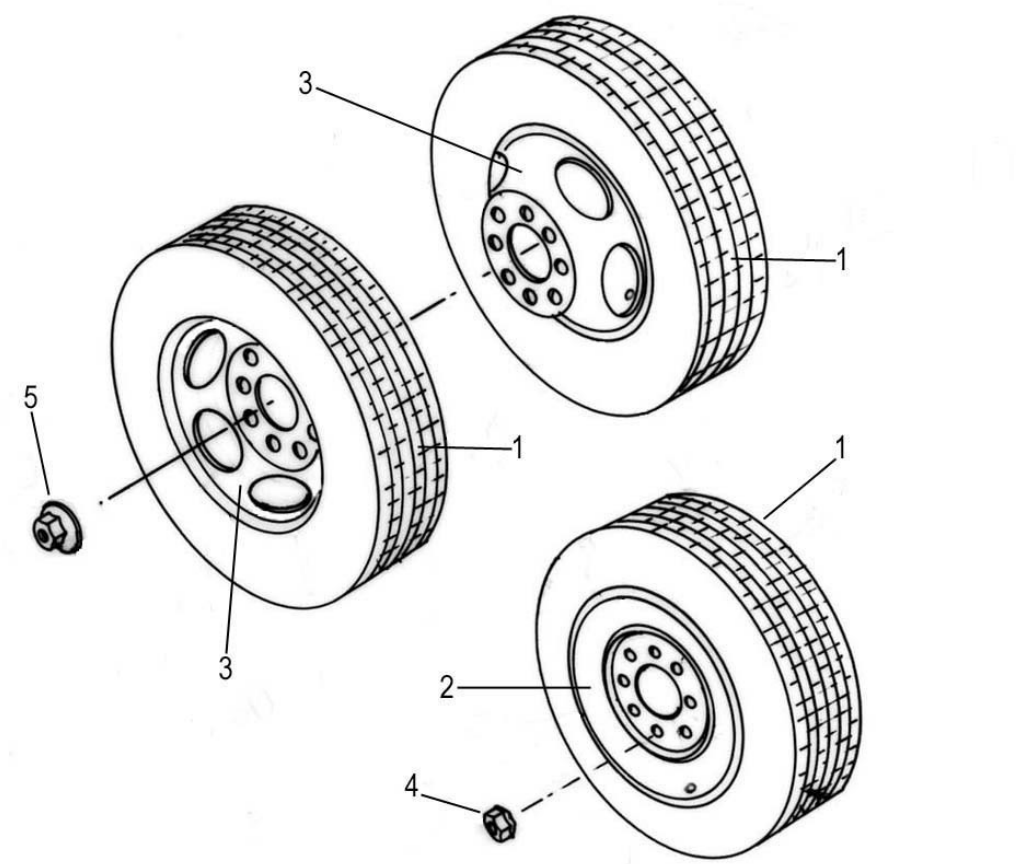
BRAKES

PARKING BRAKE ACTUATOR ASSEMBLY—DETAIL

Item	Part Number	Qty	Description
1	A-TT4-00141	1	HAND BRAKE
2	NPN	4	SCREW-HEX CAP-5/16-18 X 1
3	NPN	4	WASHER-FLAT-5/16
4	NPN	4	NUT-LOCK-5/16-18
5	B-TT4-00145	1	CABLE PRIMARY
6	A-TT4-00146	1	BAR EQUALIZER
7	NPN	3	CLEVIS PIN
8	NPN	3	COTTER PIN
9	A-TT4-00150	1	PARKING BRAKE CABLE LEFT REAR
10	A-TT4-00150	1	PARKING BRAKE CABLE RIGHT REAR
11	NPN	1	SCREW-HEX CAP-14-20 X 1
12	NPN	1	WASHER-FLAT-1/4
13	NPN	1	NUT-LOCK-1/4-20
14	NPN	1	SCREW-HEX CAP-1/4-28 X 1
15	NPN	1	CABLE CLAMP PLATE
16	NPN	1	CABLE CLAMP HANDLE
17	NPN	2	NUT-LOCK-1/4-28
18	NPN	2	CABLE CLAMP

WHEELS & TIRES

WHEEL & TIRE ASSEMBLY—DUAL REAR WHEEL MODELS



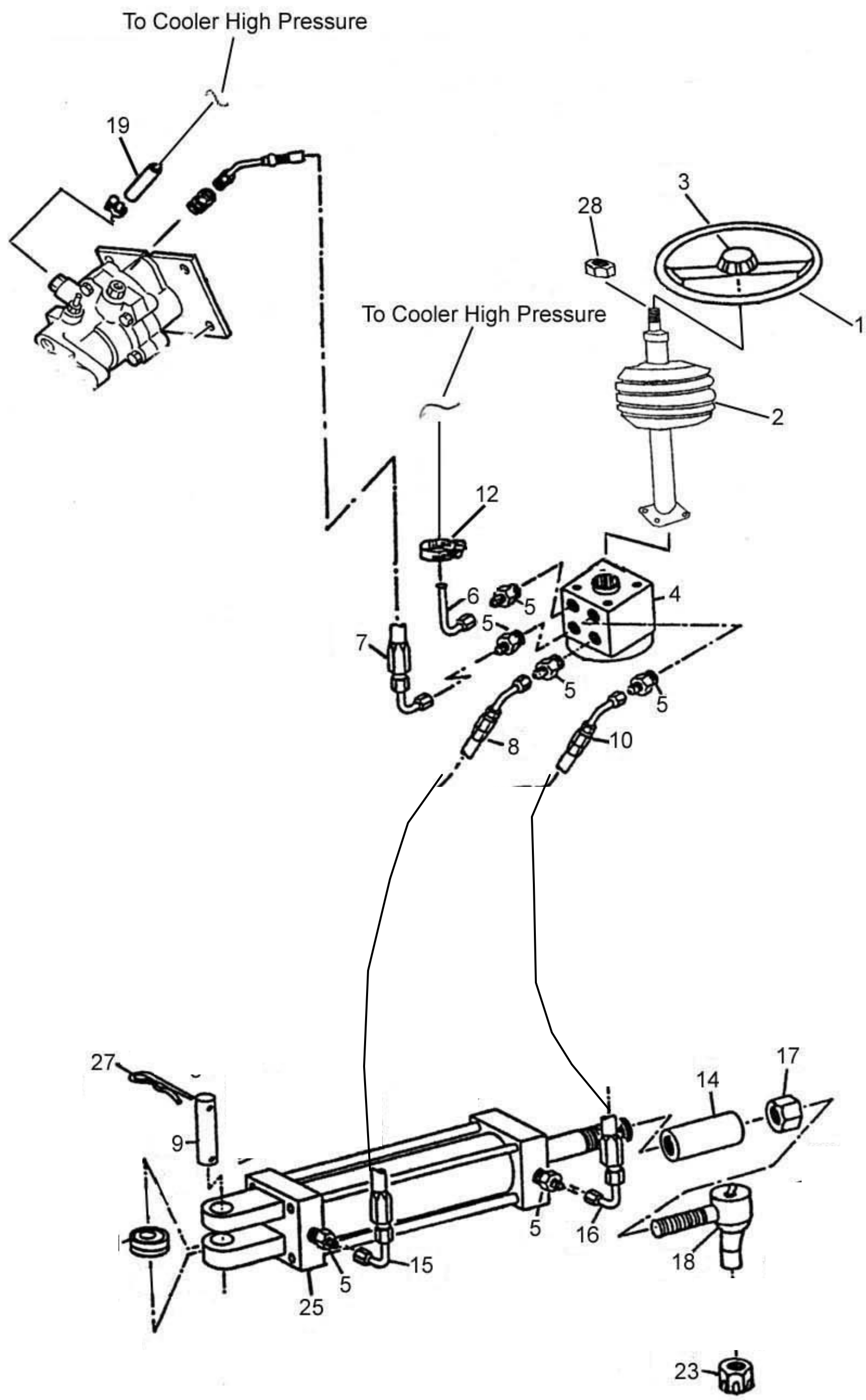
WHEEL & TIRE ASSEMBLY—DUAL REAR WHEEL MODEL—DETAIL

Item	Part Number	Qty	Description
1	A-TT10-00121	6	STANDARD TIRE
2	A-TT10-00122	2	RIM-FRONT
3	A-TT10-00125	4	RIM-REAR
4	A-TT10-00123	16	ADAPTOR LUG NUT
5	A-TT10-00126	16	WHEEL LUG NUT

*Optional 16” Chrome Rims, please call EAGLE for details

STEERING SYSTEM

STEERING SYSTEM BREAKDOWN



* See table of contents for steering configuration

STEERING SYSTEM

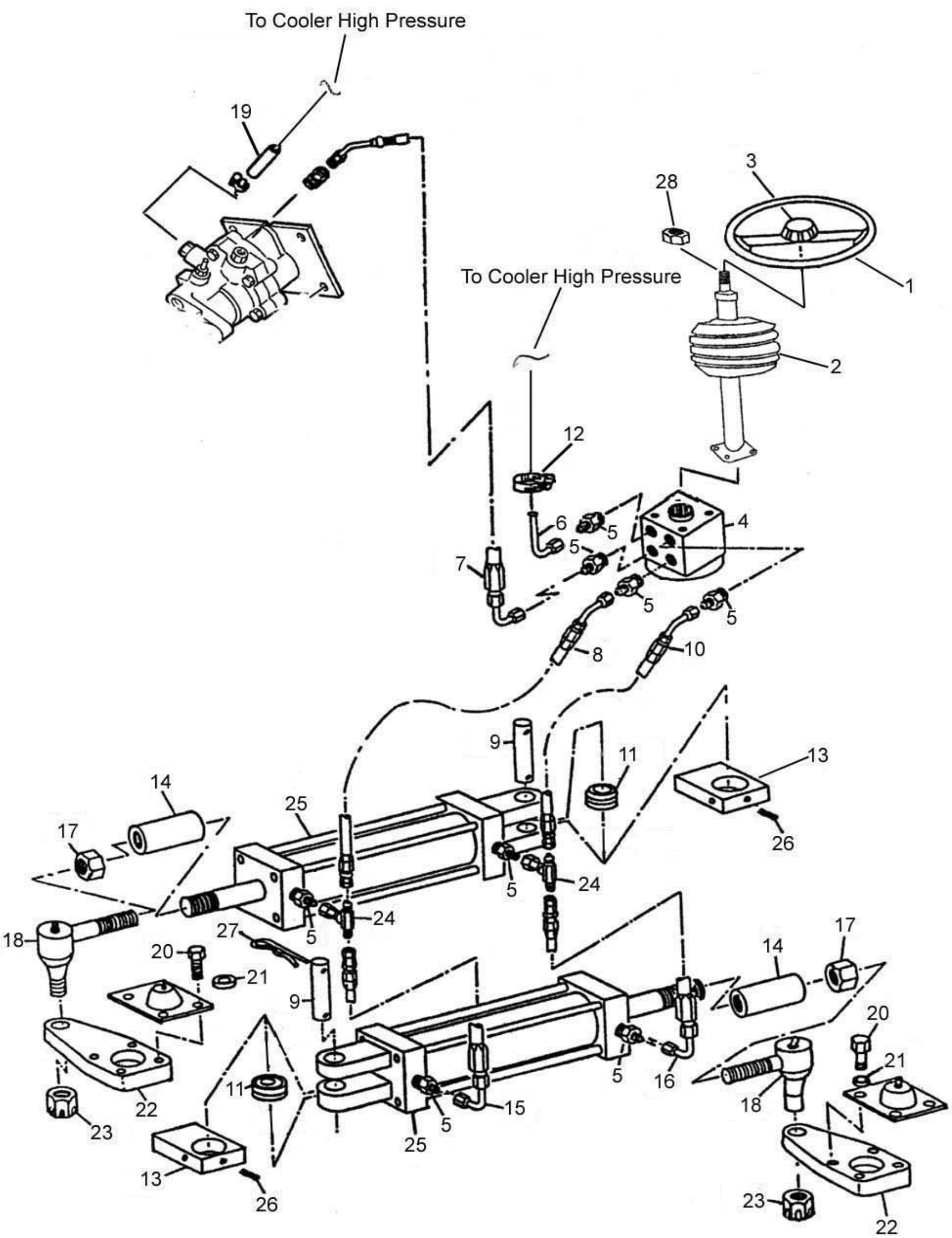
STEERING SYSTEM BREAKDOWN—DETAIL

Item	Part Number	Qty	Description
1	A-TT10-00809	1	STEERING WHEEL
2	A-TT10-00807-1	1	STEERING COLUMN
3	A-TT10-00811	1	HORN BUTTON
4	A-TU-00801	1	CHARLYNN CONTROL PUMP
5	A-TT10-00831	8	FITTING - ADAPTOR
6	A-TT10-0001	1	FITTING 90 DEGREE
7	A-TT10-00821	1	HYDRAULIC STEERING LINE
9	NPN	1	HYDRAULIC CYLINDER PIVOT PIN
11	A-TT10-00826	1	BEARING (AFTER 7/99)
12	NPN	7	HOSE CLAMP
14	A-TT10-00817	1	DRAG LINK
15	A-TT10-00825	1	HYDRAULIC STEERING LINE
16	A-TT10-00825	1	HYDRAULIC STEERING LINE
17	A-TT10-00406	1	JAM NUT
18	A-TT10-00407	1	TIE ROD END
19	NPN	1	HIGH PRESSURE HOSE
23	NPN	1	NUT HEX SLOTTED
25	A-TT10-00803-1	2	HYDRAULIC CYLINDER
27	NPN	2	CLIP
28	A-TT10-00813	1	WHEEL NUT 13/16 - 20

* COMES WITH CYLINDERS # 25

STEERING SYSTEM

STEERING SYSTEM BREAKDOWN



NOTE: Steering arm bolts must be re-torqued to 120 Ft lbs. (# 20 in above drawing) after 50, 100, 250, 500, 1000 and 2000 hours. If not checked bolts could loosen causing the steering knuckle to break.

* See table of contents for steering configuration

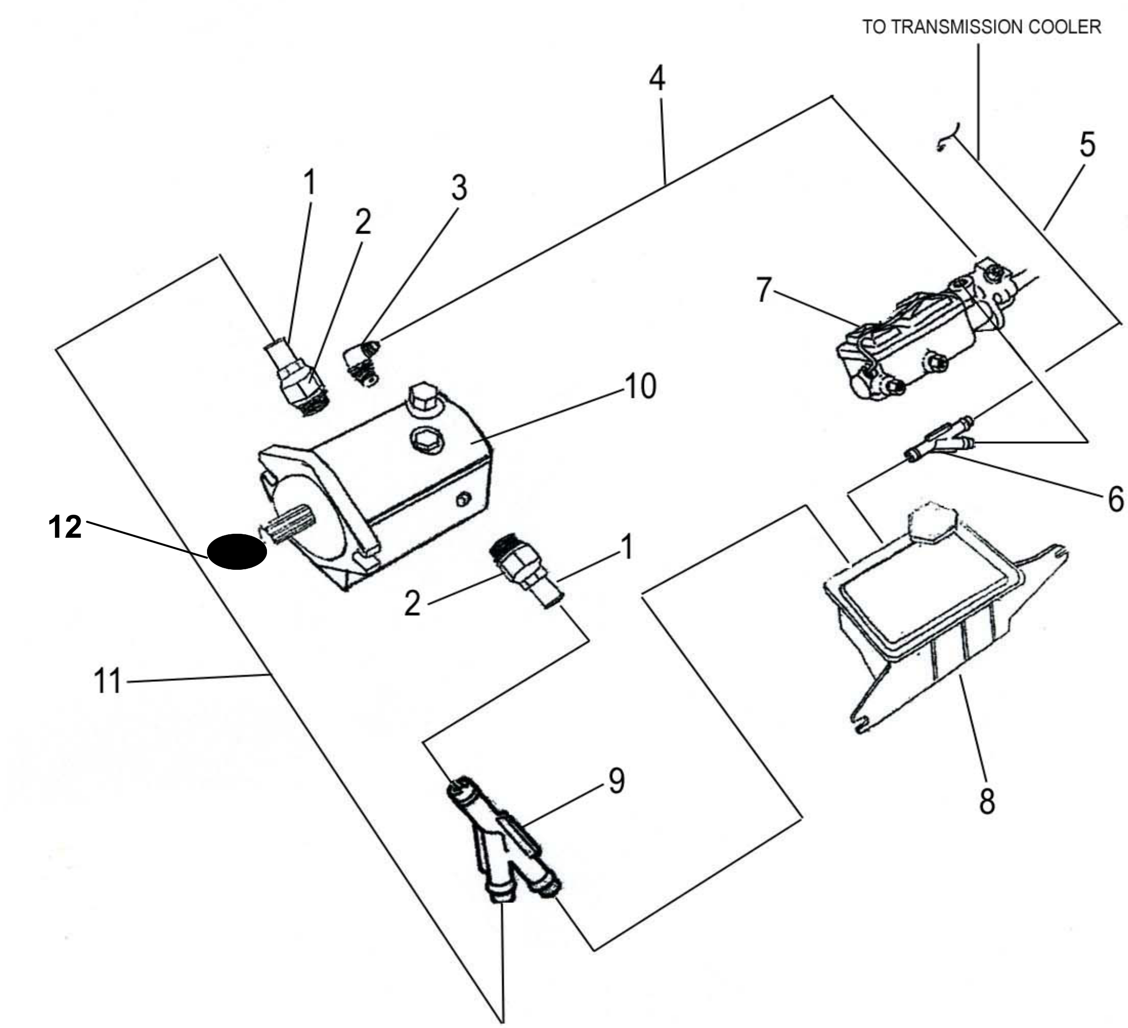
STEERING SYSTEM

STEERING SYSTEM BREAKDOWN—DETAIL

Item	Part Number	Qty	Description
1	A-TT10-00809	1	STEERING WHEEL
2	A-TT10-00807-1	1	STEERING COLUMN
3	A-TT10-00811	1	HORN BUTTON
4	A-TT10-00801	1	CHARLYNN CONTROL PUMP
5	A-TT10-00831	8	FITTING - ADAPTOR
6	A-TT10-0001	1	FITTING 90 DEGREE
7	A-TT10-00821	1	HYDRAULIC STEERING LINE
8	A-TT10-00822	1	HYDRAULIC STEERING LINE
9	NPN	2	HYDRAULIC CYLINDER PIVOT PIN
10	A-TT10-00823	1	HYDRAULIC STEERING LINE
11	A-TT10-00826	2	BEARING (AFTER 7/99)
12	NPN	7	HOSE CLAMP
13	A-TT10-00819	2	STEERING MOUNTING BLOCK
14	A-TT10-00817	2	DRAG LINK
15	A-TT10-00825	1	HYDRAULIC STEERING LINE
16	A-TT10-00825	1	HYDRAULIC STEERING LINE
17	A-TT10-00406	2	JAM NUT
18	A-TT10-00407	2	TIE ROD END
19	NPN	1	HIGH PRESSURE HOSE
20	NPN	8	SCREW HEX CAP 1/2 -20 X 2 1/4
21	NPN	8	WASHER FLAT 1/2
22	A-TT10-00820	2	STEERING ARM (MACHINED)
23	NPN	2	NUT HEX SLOTTED
24	C-5707X6	2	FITTING -TEE
25	A-TT10-00803	2	HYDRAULIC CYLINDER
26	NPN	2	SET SCREW 5/16 18 X 3/8
27	NPN	4	CLIP
28	A-TT10-00813	1	WHEEL NUT 13/16 - 20
* COMES WITH CYLINDERS # 25			

STEERING SYSTEM

HYDRAULIC ACTUATION BRAKING SYSTEM

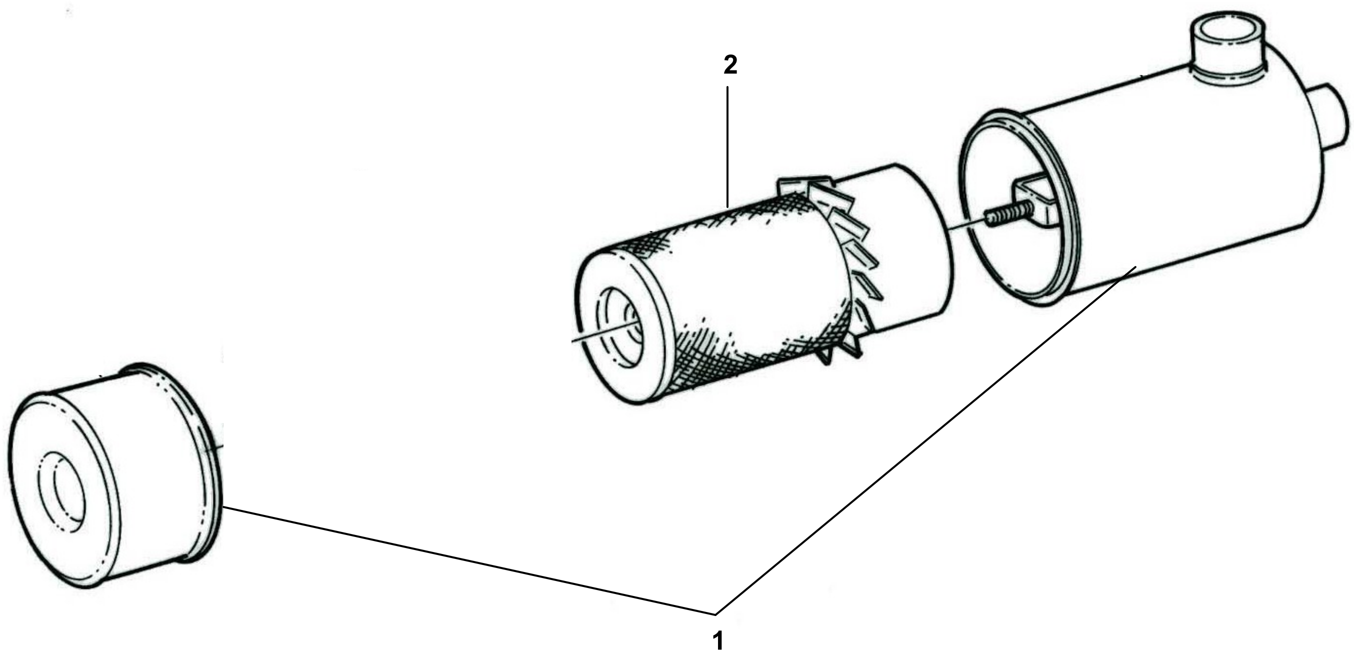


HYDRAULIC ACTUATION BREAKING SYSTEM—DETAIL

Item	Part Number	Qty	Description
1	05712B-108	2	FITTING STRAIGHT 3/4X1/2
2	C3269X12X8	2	FEMALE PIPE ADAPTER
3	C5515X6	1	90 DEGREE SWIVEL FITTING
4	NPN	1	CUT TO FIT, BULK HOSE
5	NPN	1	CUT TO FIT, BULK HOSE - 3/8" 350 PSI
6	A-TT4-00207	1	RETURN LINE TEE
7	A-TT4-00161	1	MASTER CYLINDER
8	A-TT4-00322-2	1	RESERVOIR TANK
9	A-TT4-00606	1	Y FITTING
10	SP20P11L14H2R	1	POWER STEERING PUMP
11	12GMV MEGAVAC	1	CUT TO FIT, BULK HOSE 3/4" SUCTION
12	A-TT10-00815	1	SPEC IDLER PULLEY FORD V6

Air Cleaner, Fuel System & Exhaust

AIR CLEANER SUB-ASSEMBLY

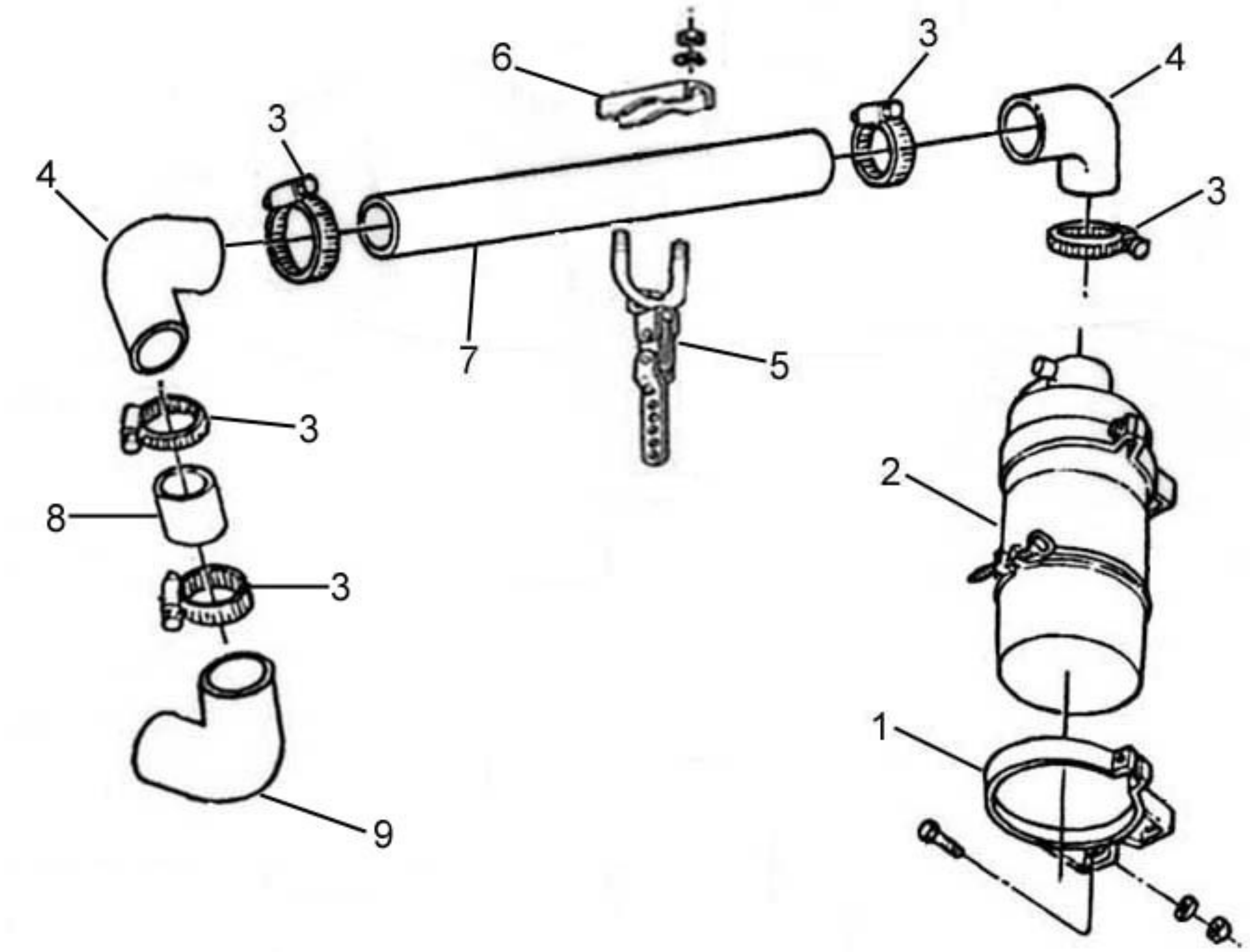


AIR CLEANER SUB-ASSEMBLY—DETAIL

Item	Part Number	Qty	Description
1	A-TT4-00091	1	AIR CLEANER 2"
	A-TT4-00091-1	1	AIR CLEANER 3"
2	P14-8966	1	AIR CLEANER ELEMENT 2"
	P549271	1	AIR CLEANER ELEMENT 3"

Air Cleaner

AIR CLEANER ASSEMBLY—FORD 4.2L

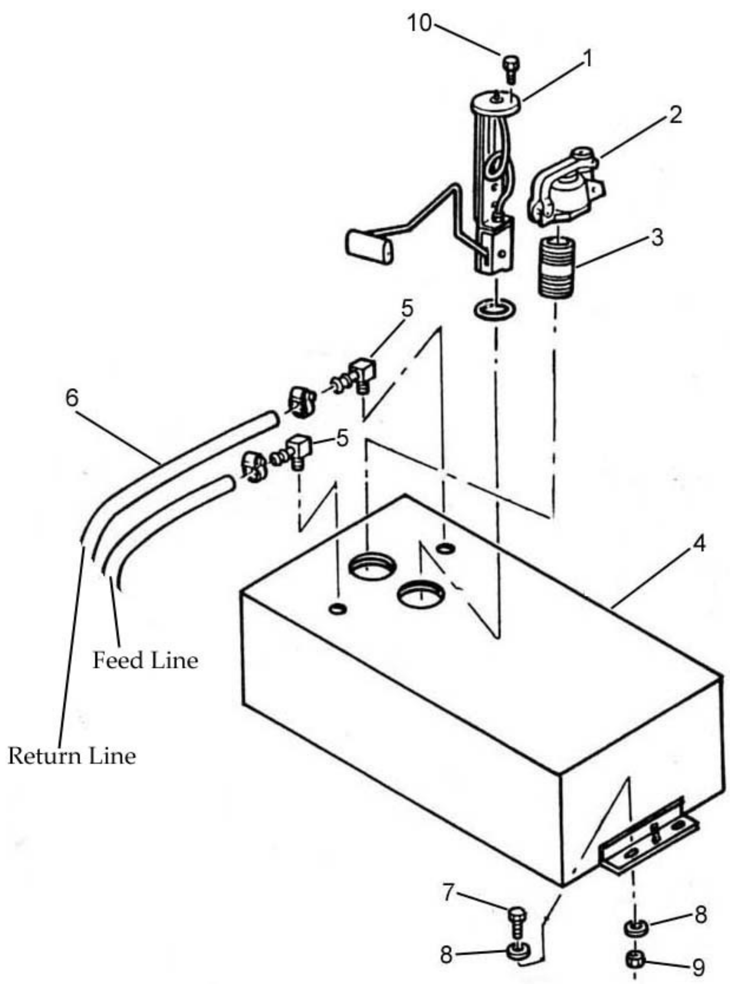


AIR CLEANER ASSEMBLY—FORD 4.2L—DETAIL

Item	Part Number	Qty	Description
1	A-TT4-00092	2	AIR CLEANER BRACKET
2	A-TT4-00091-1	1	AIR CLEANER ASSEMBLY 3"
	A-TT4-00091	1	AIR CLEANER ASSEMBLY 2"
3	NPN	5	HOSE CLAMPS
4	A-TT4-00097-1	2	90 DEGREE ELBOW
5	A-TT4-00260	1	PIPE HANGAR
6	A-TT4-00254	1	2" EXHAUST CLAMP
7	NPN	1	BULK-INTAKE TUBE
8	NPN	1	BULK-INTAKE TUBE
9	XU1L9652AB	1	90 ELBOW

Fuel System

FUEL SYSTEM

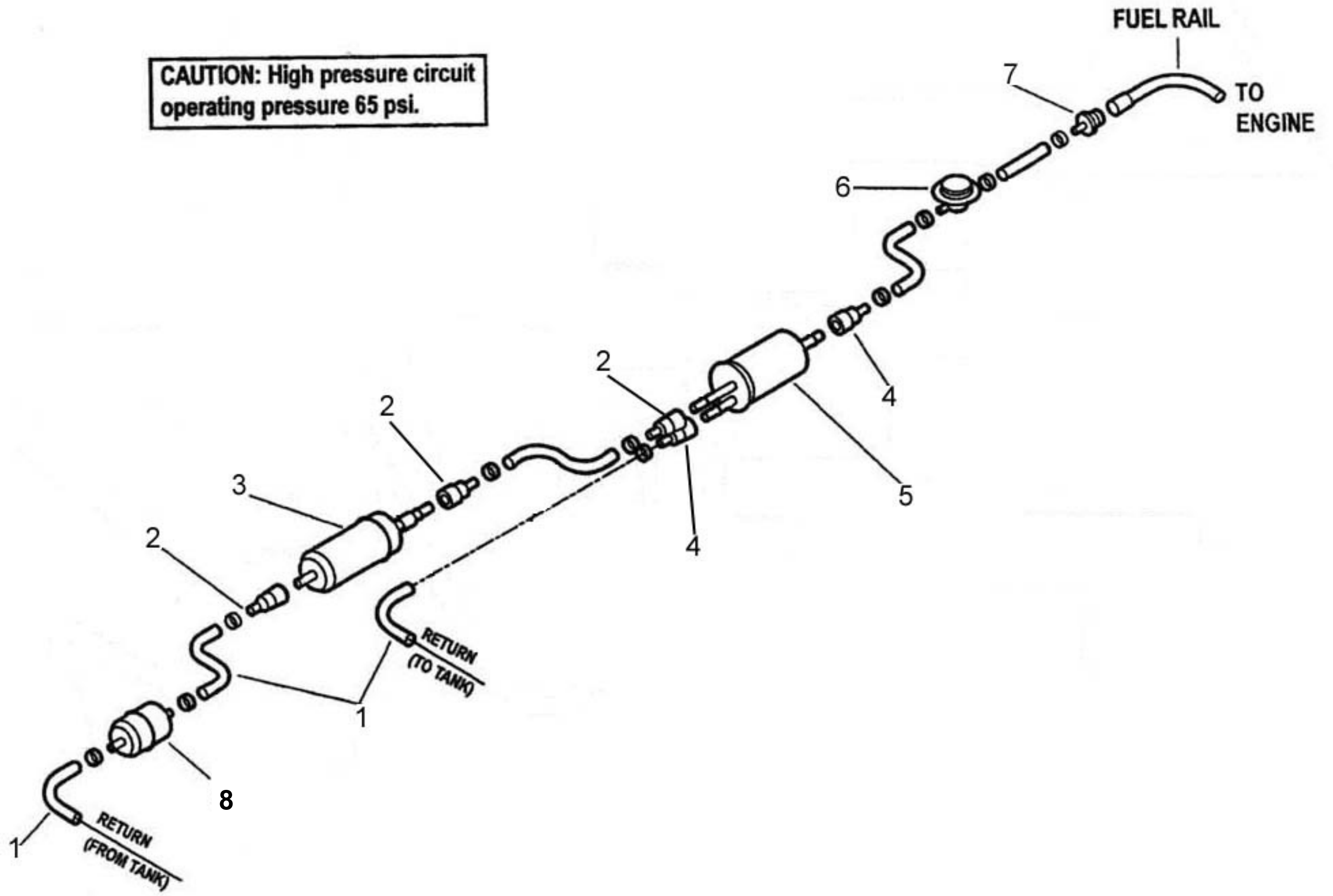


FUEL SYSTEM—DETAIL

Item	Part Number	Qty	Description
1	A-TT4-00276	1	FUEL SENDING UNIT
2	A-TT4-00271	1	FUEL CAP
3	A-TT4-00272	1	NIPPLE
4	A-TT10-00273	1	FUEL TANK
5	A-TT4-00274	6	90 DEGREE ELBOW FITTING
6	NPN	1	BULK-5/16 FUEL LINE
7	NPN	4	BOLT
8	NPN	6	WASHER
9	NPN	4	LOCK NUT
10	NPN	5	SCREW-HEX CAP-10-32 X3/4

FUEL SYSTEM

EFI-FUEL SYSTEM

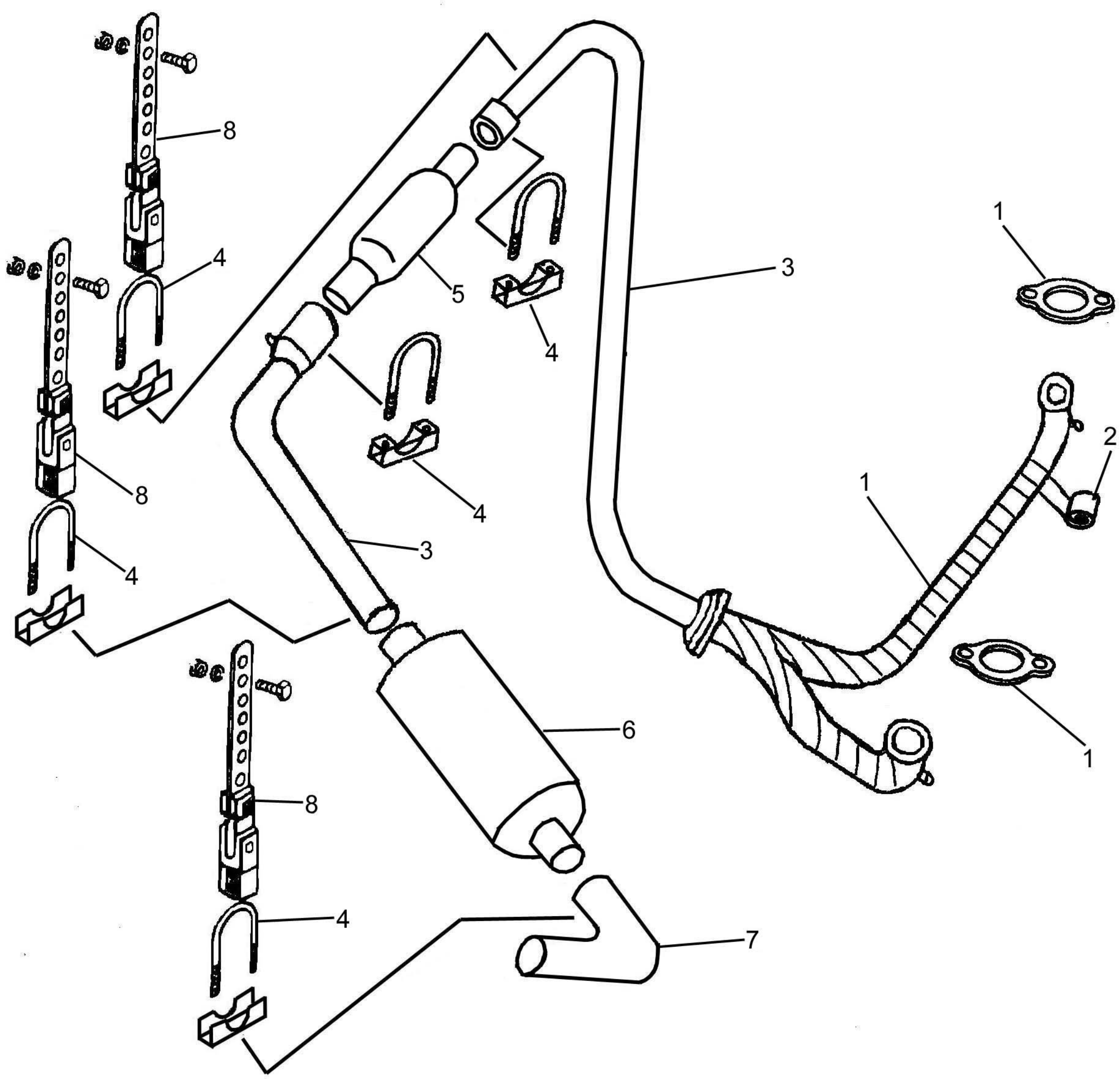


EFI-FUEL SYSTEM—DETAIL

Item	Part Number	Qty	Description
1	NPN	1	HOSE 5/16" ID
2	NPN	3	CONNECTOR 6.3MM
3	E7UZ9C407A	1	FUEL PUMP AND ISOLATOR
4	NPN	2	CONNECTOR 9.5MM
5	F8JL9P917AA	1	PRESSURE REGULATOR AND FILTER
6	F1ZE9F775AA	1	DAMPER ASSEMBLY FUEL INJECTION PULSE
7	N806207-S190	1	CONNECTOR 14MM
8	F8JL9A011AA	1	FUEL FILTER

EXHAUST

EXHAUST SYSTEM—FORD 4.2L

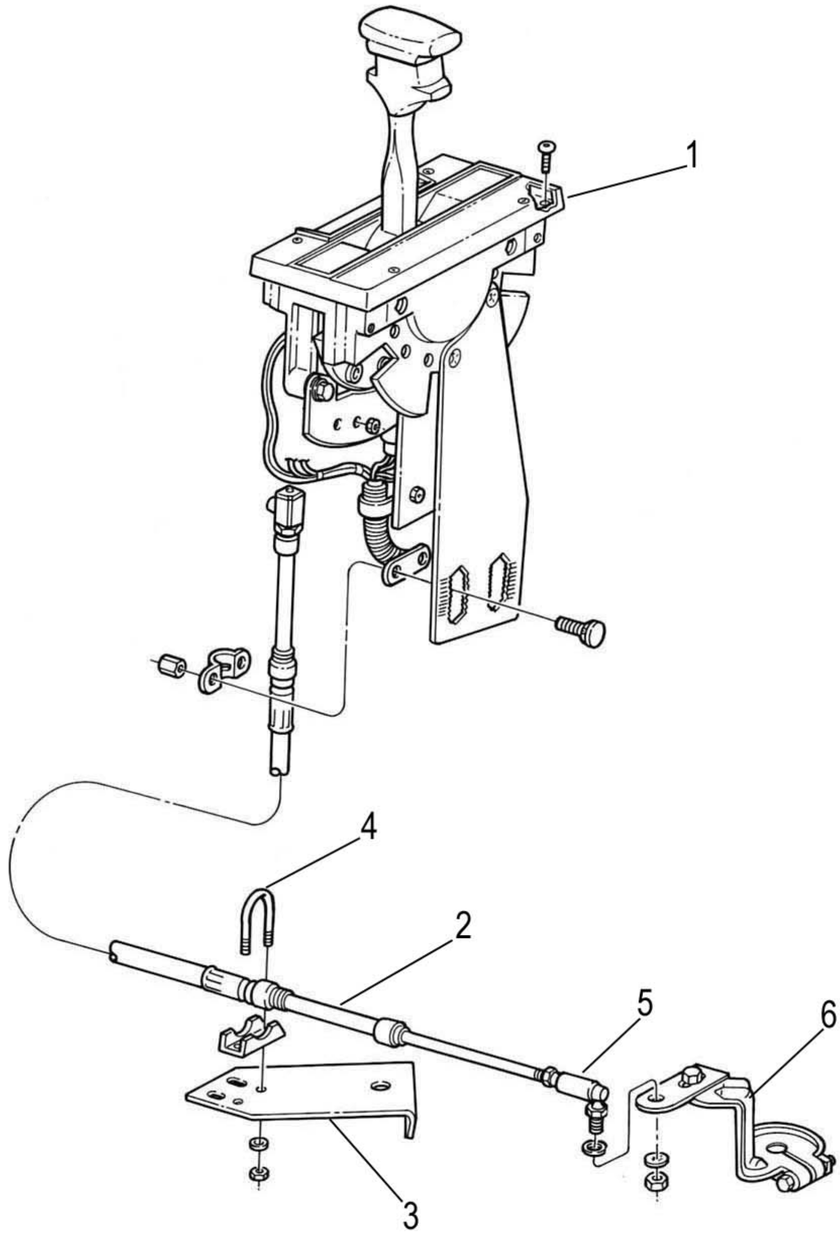


EXHAUST SYSTEM—DETAIL

Item	Part Number	Qty	Description
1	A-TT10F-00256	1	EXHAUST Y PIPE AND FLANGES
2	A-TT12-00255	1	EXHAUST WRAP
3	A-TT10F-00257	1	EXHAUST PIPE
4	A-TT4-00254	5	2″ MUFFLER CLAMPS
5	XUIL5E212AB	1	CATALYTIC CONVERTER
6	A-TT10F-00258	1	MUFFLER
7	A-TT4-00259-1	1	90 DEGREE TAIL PIPE
8	A-TT4-00260	1	PIPE HANGER

Operator Compartment

TRANSMISSION CONTROL

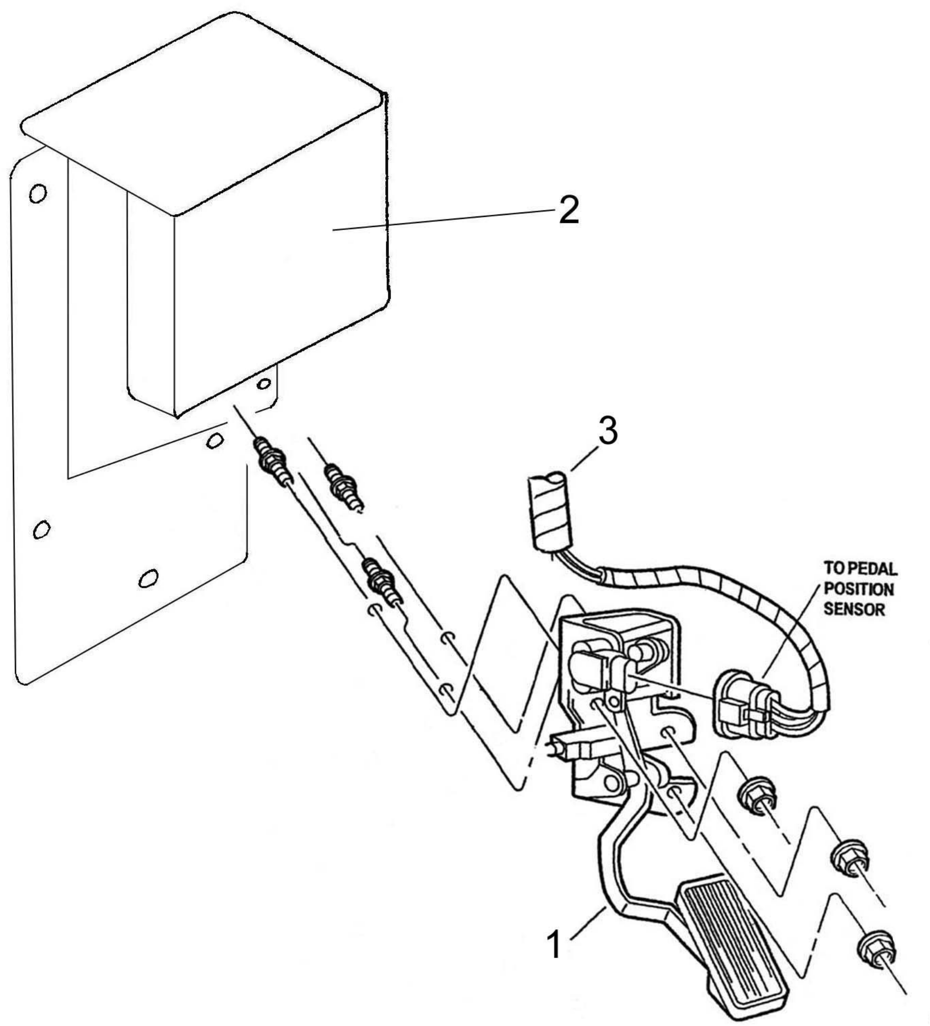


TRANSMISSION CONTROL—DETAIL

Item	Part Number	Qty	Description
1	A-TT4-00245	1	TRANSMISSION SHIFT CONTROL
2	A-TT4-00246	1	TRANSMISSION SHIFT CABLE
3	A-TT4-00248	1	TRANSMISSION CABLE BRACKET ASSEMBLY
4	A-TT4-00247	1	U-BOLT KIT
5	A-TT4-00249	1	BALL JOINT KIT
6	A-TT4-00419	1	TRANSMISSION LEVER

Operator Compartment, Accelerator

ACCELERATOR PEDAL ASSEMBLY

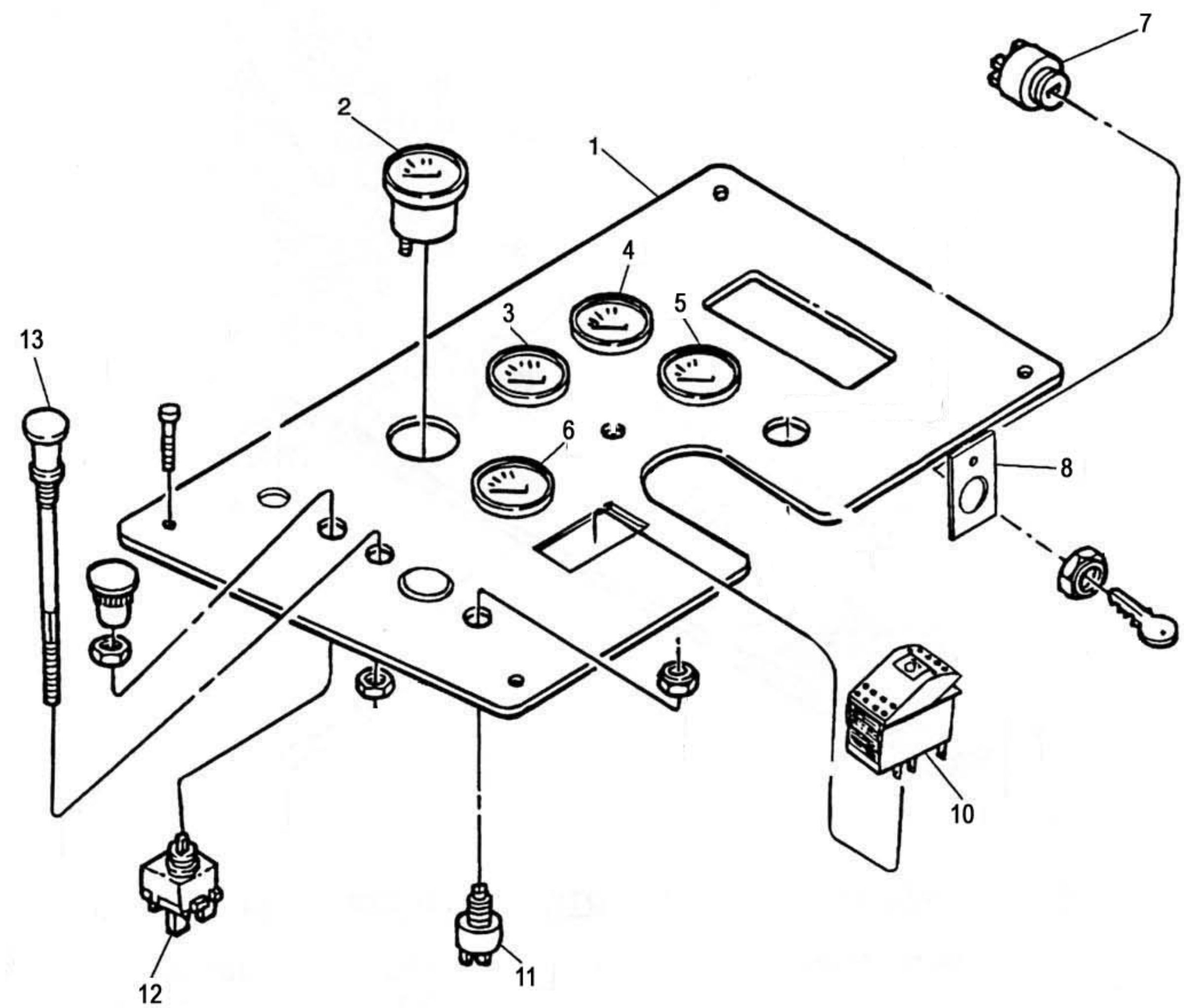


ACCELERATOR PEDAL ASSEMBLY—DETAIL

Item	Part Number	Qty	Description
1	F5TZ9F836A	1	FOOT PEDAL WITH TWO PLUGS
1A	F8JL12B476AA	1	WIRE HARNESS WITH TWO PLUGS
2	NPN	1	ELECTRONIC FOOT PEDAL BRACKET
3	1C3Z9F836BA	1	FOOT PEDAL WITH ONE PLUG
3A	2U1L12B476AA	1	WIRE HARNESS WITH ONE PLUG

Operator Compartment

INSTRUMENT PANEL



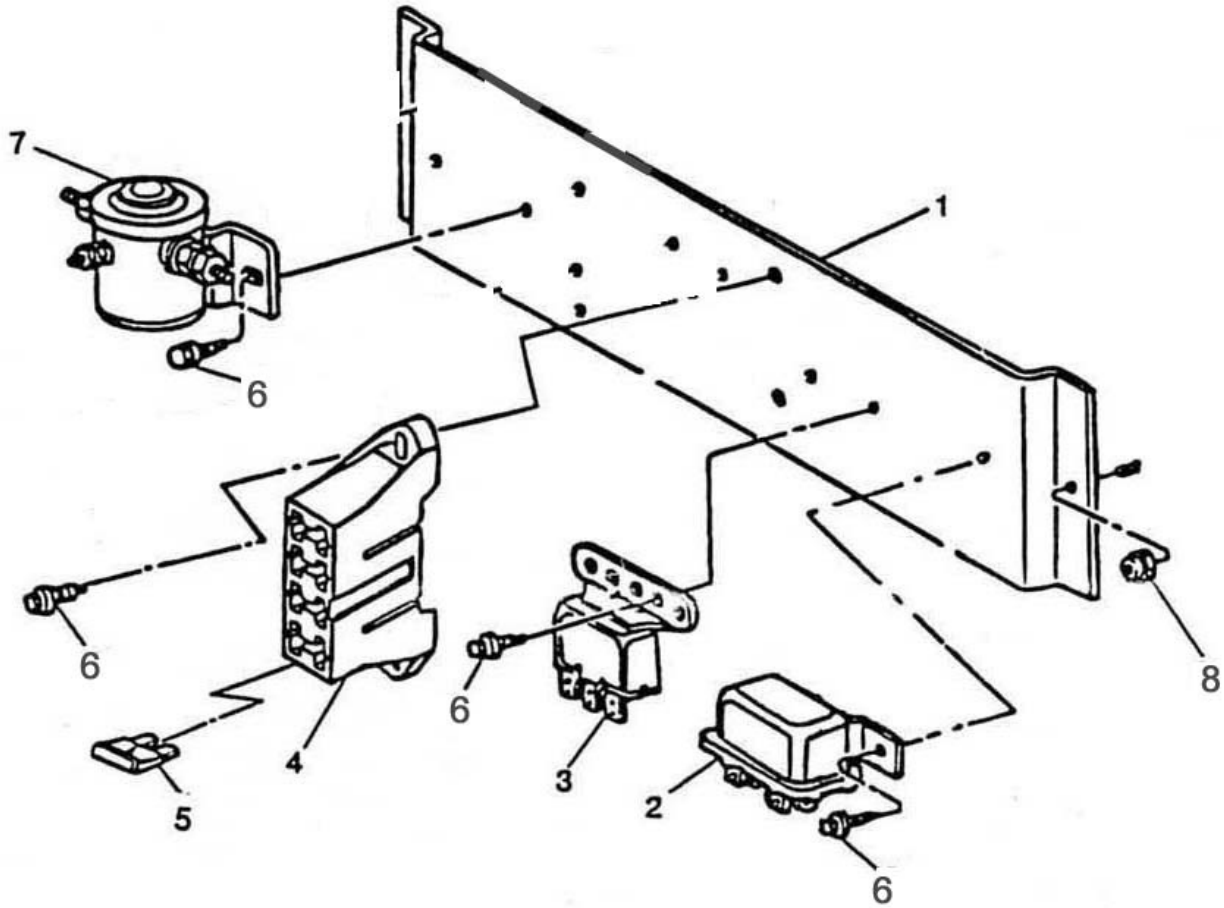
OPERATOR COMPARTMENT

INSTRUMENT PANEL—DETAIL

Item	Part Number	Qty	Description
1	C-TT4-00411	1	DASH PANEL (NO INSTRUMENTS)
2	A-TT4-00412	1	OIL PRESSURE GAUGE
3	A-TT4-00415	1	FUEL GAUGE
4	A-TT4-00416	1	VOLT-AMP GAUGE
5	A-TT4-00417	1	TEMP GAUGE
6	A-TT4-00418	1	HOUR METER
7	A-TT4-00422-2	1	IGNITION SWITCH (KEYED OPTION)
7	A-TT4-00422-3	1	IGNITION SWITCH (KEYLESS OPTION)
8	A-TT6-0015-1	1	PLATE, MOUNTING IGNITION SWITCH
10	A-TT4-00423-1	1	HEAD LIGHT SWITCH
11	A-TT4-00428	1	HORN BUTTON
12	A-TT4-00609	1	HEATER FAN SWITCH
13	A-TT4-00608	1	TEMPERATURE CONTROL CABLE
NS	A-TT4-00434	1	WIRE HARNESS (DASH ONLY)
NS	A-TT4-00435-1	1	80 AMP CIRCUIT BREAKER

LIGHTS & ELECTRICAL

ELECTRICAL COMPONENT BOARD

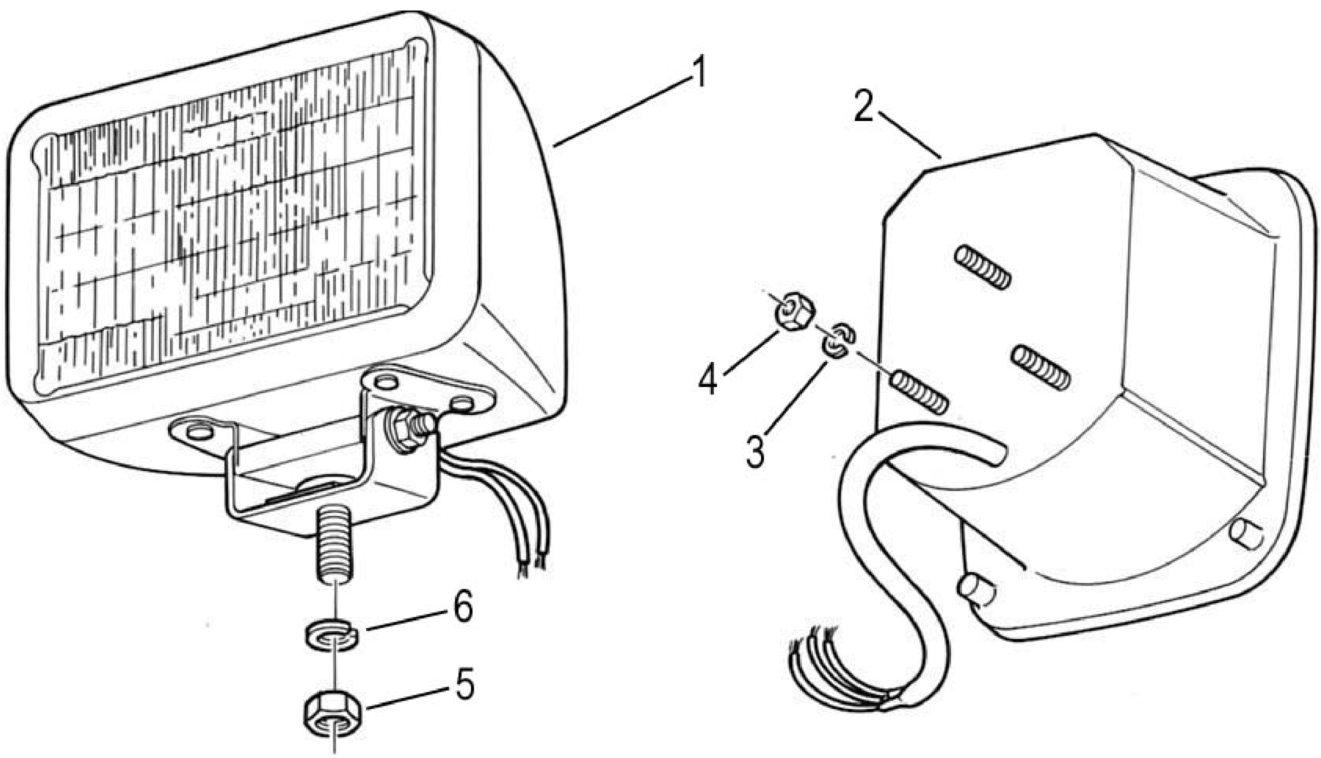


ELECTRICAL COMPONENT BOARD—DETAIL

Item	Part Number	Qty	Description
1	B-TT4-00301	1	MOUNTING BRACKET
2	A-TT4-00302	1	STARTER RELAY
3	A-TT4-00303	1	HORN RELAY
4	A-TT4-00307	1	FUSE BLOCK-SPADE TYPE
5	A-TT4-00309	4	FUSE (25 AMP)
6	NPN	10	SELF DRILLING SCREWS
7	A-TT4-00308	1	RELAY
8	NPN	2	LOCK NUT 10-32

LIGHTS & ELECTRICAL

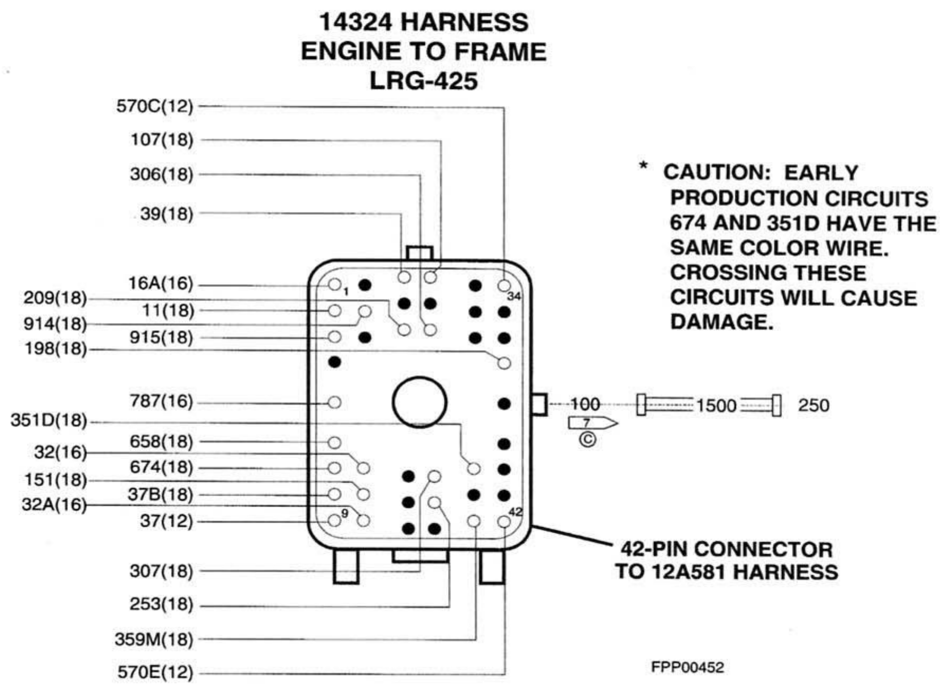
HEADLIGHT & TAILLIGHT ASSEMBLY



HEADLIGHT & TAILLIGHT ASSEMBLY—DETAIL

Item	Part Number	Qty	Description
1	A-TT10-00291	2	HEADLIGHT
2	A-TT4-00292	2	TAILLIGHT
3	NPN	2	WASHER-FLAT-1/2
4	NPN	6	WASHER-FLAT-1/4
5	NPN	2	NUT-1/2-13
6	NPN	6	NUT-1/4-20
7	AE-OPT-0075	2	HEADLIGHT WITH TURN SIGNAL (OPTION)

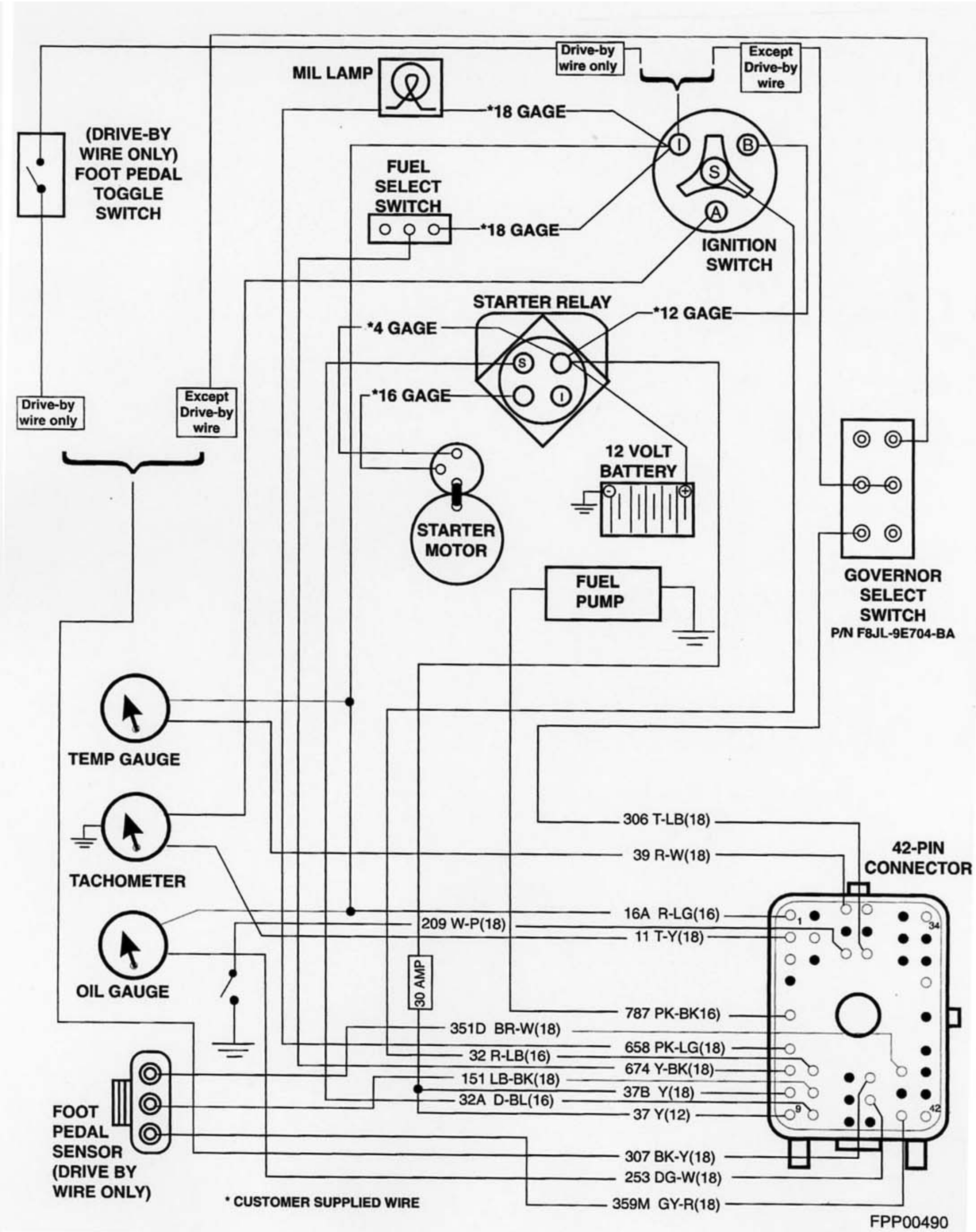
WIRING DIAGRAM



CIRCUIT #	CIRCUIT DESCRIPTION	COLOR	GAUGE	42 PIN
915	DATA LINK CONNECTOR – RS485 (NEGATIVE)	PK-LB	18	3
914	DATA LINK CONNECTOR – RS485 (POSITIVE)	T-O	18	11
787	TO FUEL PUMP	PK-BK	16	5
* 674	FUEL SELECT (OPEN CIRCUIT = PRIMARY FUEL; 12V = SECONDARY FUEL)	Y-BK	18	7
658	MALFUNCTION INDICATOR LAMP (OPEN COLLECTOR OUTPUT – 500 mA MAX.	PK-LG	18	6
570E	POWER GROUND – BATTERY (NEGATIVE)	BK-W	12	42
570C	POWER GROUND – BATTERY (NEGATIVE)	BK-W	12	34
359M	DRIVE BY WIRE – SIGNAL RETURN (SIGNAL RETURN FOR DRIVE BY WIRE POT)	GY-R	18	33
* 351D	DRIVE BY WIRE – VREF (5V REF VOLT FOR DRIVE BY WIRE POT)	BR-W	18	31
307	GOVERNOR SPEED SELECT #2 (GVS2) – SEE BELOW DESCRIPTION FOR GVS1	BK-Y	18	25
306	GOVERNOR SPEED SELECT #1 (GVS1) NOTE: (USE TRUTH TABLE – INPUT FROM GVS1 & GVS2) 0 = OPEN CIRCUIT 1 = 12V SIGNAL 0 0 0 1 1 0 1 1 GVS1 GVS2	T-LB	18	24
253	OIL PRESSURE – FOR INDICATOR LIGHT (OPEN = LOW PRESSURE; CLOSED = NORMAL PRESSURE)	DG-W	18	26
209	SELF TEST INPUT (SHORT TO GROUND TO ACCESS TROUBLE CODES)	W-P	18	18
198	AUXILLIARY INPUT	DG-O	18	37
151	DRIVE BY WIRE – SIGNAL INPUT (0-5V SIGNAL)	LB-BK	18	14
107	DATA LINK CONNECTOR – RS485 (GROUND)	P	18	22
39	WATER TEMPERATURE INDICATOR SENDER TO GAUGE	R-W	18	16
37B	KEEP ALIVE POWER – BATTERY	Y	18	8
37	VPWR – POWER RELAY "SWITCHED SIDE" – 12V (BATT+)	Y	12	9
32A	TO STARTER SOLENOID "S" TERMINAL	DB	16	15
32	FROM IGNITION SWITCH "START MODE" TERMINAL	R-LB	16	13
16A	SWITCHED IGNITION – 12V	R-LG	16	1
11	TO TACHOMETER	T-Y	18	2

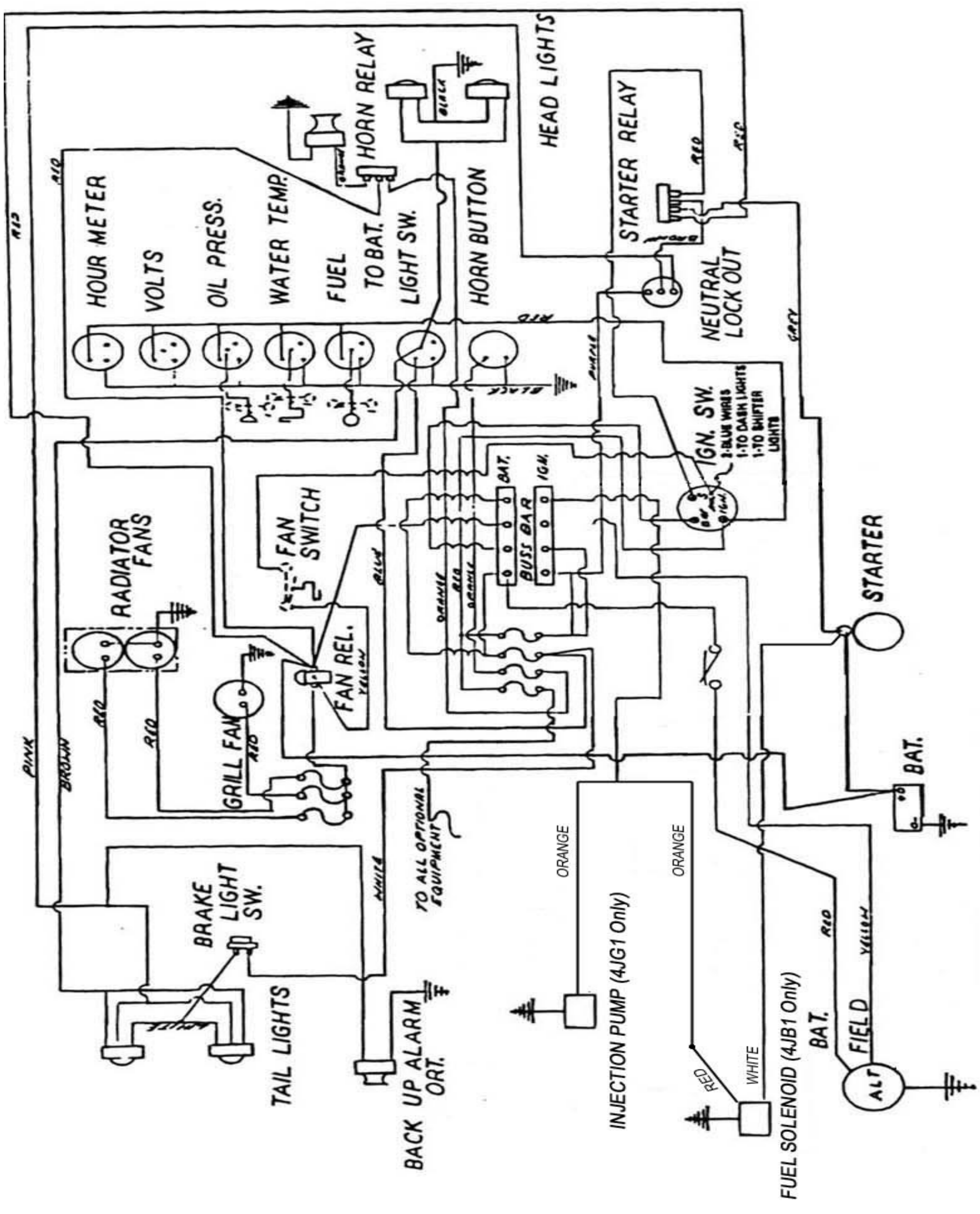
LIGHTS & ELECTRICAL

WIRING DIAGRAM



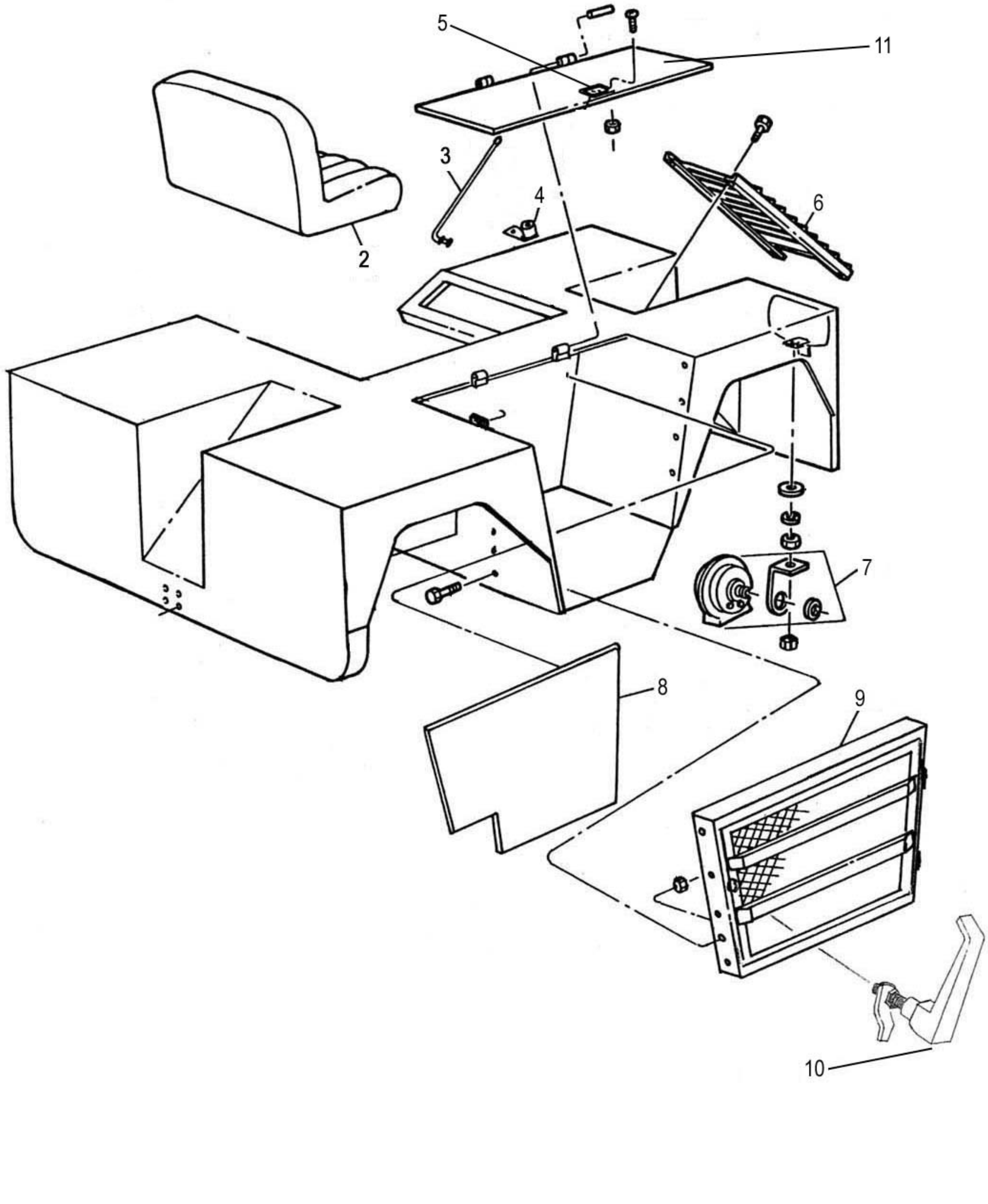
Lights & Electrical

WIRING HARNESS



Other Assemblies

BODY ASSEMBLY



OTHER ASSEMBLY

BODY ASSEMBLY –DETAIL

Item	Part Number	Qty	Description
2	A-TT10-00048	1	BENCH SEAT (ON TT /2 MODELS)
3	NPN	1	HOOD PROP
4	NPN	1	HOOD PROP ASSEMBLY
5	C-TT4-0012-2	1	HOOD LATCH
6	NPN	1	FRONT GRILL
7	A-TT4-0052	1	HORN ASSEMBLY
8	A-TT4-0049	1	HEAT SHIELD
9	D-TT4-0009-1	1	GRILL GUARD/ACCESS DOOR
10	62-10-603-20	1	LATCH FOR ACCESS DOOR
11	B-TT10-00012	1	HOOD
12	AE-OPT-0033	1	E-HITCH (OPTION)
13	B-TT3-0007	1	PINTLE HOOK (OPTION)

ENGINE DIAGNOSTICS

The Ford fuel injected engines are equipped with a diagnostic tool that will tell the operator that there is a problem with the engine. The Ford system uses an engine malfunction indicator light (installed on the instrument panel) that blinks when there is a problem. The indicator light blinks in different sequences that tell you what kind of problem exists depending on the sequence.

The steps below may be taken to verify what type of engine problem exists. Once the steps have been followed, and you have recorded a trouble code sequence, a Ford Power Products technician should be contacted to let you know what the problem is and what steps should be taken to fix the problem. (*Please see the listing of Ford Power Products service organizations on the next page.*)

ENGINE MALFUNCTION INDICATOR LIGHT – WITH SHUTDOWN

The following steps should be followed if your vehicle **is** equipped with a **Low Oil/High Temp. Shutdown System**:

1. In the right side of the engine compartment, find the ORANGE wire 26I next to the starter relay. It will be plugged into a RED wire with a Green Tracer.
2. Unplug the ORANGE and RED/GREEN wires.
3. Use a jumper wire to jump the RED/GREEN wire to the POSITIVE post on the battery. This will bypass the shutdown system. **CAUTION - DO NOT START ENGINE WITH BYPASS INSTALLED.**
4. Remove Dash Cover (under instrument panel)
5. Find WHITE test wire labeled “GROUND-TO TEST” on the left-hand side.
6. Plug the WHITE wire into the BLUE clip on the BLACK ground wire.
7. Turn key to “ON” position. (Not “Start”)
8. The malfunction indicator light on the dash will begin to flash a “test sequence”: (1) (1,2) (1,2,3) It will flash this sequence *3 TIMES.*
9. After 3 times, it will then flash a trouble code sequence if there is a problem with the engine. If the system is operating normally, with no problems, then the program will just keep repeating the test sequence.

ENGINE MALFUNCTION INDICATOR LIGHT – WITHOUT SHUTDOWN

1. Remove Dash Cover (under instrument panel)
2. Find WHITE test wire labeled “GROUND-TO TEST” on the left-hand side.
3. Plug the WHITE wire into the BLUE clip on the BLACK ground wire.
4. Turn key to “ON” position. (Not “Start”)
5. The malfunction indicator light on the dash will begin to flash a “test sequence”: (1) (1,2) (1,2,3) It will flash this sequence *3 TIMES.*
6. After 3 times, it will then flash a trouble code sequence if there is a problem with the engine. If the system is operating normally, with no problems, then the program will just keep repeating the test sequence.

Ford Power Products Service Information

North America - Canada

IF YOU ARE IN	THEN CALL	ADDRESS	TELEPHONE NUMBERS
WORLD HEADQUARTERS	Ford Power Products, LLC	15700 Lundy Parkway Dr., Suite 200 Dearborn, MI 48126 USA	Tel: 1-313-845-1400 1-800-833-4773 Fax: 1-313-619-2600
BRITISH COLUMBIA,	Industrial Engines Ltd.	1020 Cliveden Ave. Delta, Annacis Island, British Columbia, Canada, V3M 5R5	Tel: 1-604-525-8529 1-877-438-6560 Fax: 1-604-525-0974
ONTARIO, QUEBEC, MONITOBA	M-K Power Products Corp.	5641 McAdam Road Mississauga, Ontario, Canada, L4Z-1N9	Tel: 1-905-890-5323 CAN 1-800-263-5011 Fax: 1-905-890-6660
ALBERTA, SASKATCHEWAN	Industrial Engines, Ltd.	14335 12th Avenue Edmonton, Alberta Canada, T5L 2R8	Tel: 1-780-484-6213 CAN 1-866-484-6213 Fax: 1-780-732-0400
NOVA SCOTIA, NEW BRUNSWICK, NEW FOUNDLAND PRINCE EDWARD ISLAND	Lunenburg Industrial Foundry & Engineering	53 Falkland Street, PO 1240 Lunenburg, Nova Scotia Canada, BOJ 2C0	Tel: 1-902-634-8827 Fax: 1-902-634-8886

North America - United States

IF YOU ARE IN	THEN CALL	ADDRESS	TELEPHONE NUMBERS
WORLD HEADQUARTERS	Ford Power Products, LLC	15700 Lundy Parkway Dr., Suite 200 Dearborn, MI 48126 USA	Tel: 1-313-845-1400 1-800-833-4773 Fax: 1-313-619-2600
ALABAMA	M&I Engine Company, Inc.	30762 State Highway 181 Daphne, AL 36526	Tel: 1-251-626-8080 1-800-633-1834 Fax: 1-251-626-2744
ALASKA	E.C. Power Systems	6051 S. 194th Street Kent, WA 98032	Tel: 1-253-872-7011 1-800-247-5899 Fax: 1-253-872-6947
ARIZONA	E.C. Power Systems	8360 E. Via de Ventura Blvd., Suite L-200 Scottsdale, AZ 85258	Tel: 1-480-905-5585 Fax: 1-503-224-3907
ARKANSAS (Northern)	Kansas City Power Products, Inc.	80 South James Kansas City, KS 66118	Tel: 1-913-321-7040 1-800-486-5277 Fax: 1-913-321-7341
(Southern)	Lightbourn Equipment Co.	13649 Beta Road Dallas, TX 75244	Tel: 1-972-233-5151 Fax: 1-972-661-0738
CALIFORNIA	Powertech Engines Inc. (Main Office)	2933 E. Hamilton Avenue Fresno, CA 93721	Tel: 1-559-264-1776 1-800-891-1776 Fax: 1-559-264-2933
	Powertech Engines Inc.	2003 Leghorn Street Mountainview, CA 94043	Tel: 1-650-968-2434 Fax: 1-650-969-1267
	Powertech Engines Inc.	1410 South Acacia Avenue, Suite B Fullerton, CA 92831	Tel: 1-714-635-1774 1-800-784-1776 Fax: 1-714-635-1771
COLORADO	Industrial Power Systems, Inc. Engine Division	3233 Oakland Street Aurora, CO 80010	Tel: 1-303-360-7110 1-800-678-3673 Fax: 1-303-360-7519

FORD POWER PRODUCTS SERVICE INFORMATION

North America - United States (Continued)

IF YOU ARE IN	THEN CALL	ADDRESS	TELEPHONE NUMBERS
CONNECTICUT	Engine Distributors, Inc.	400 University Court Blackwood, NJ 08012	Tel: 1-856-228-7298 1-800-220-2700 Fax: 1-856-228-5657(Parts) 1-856-228-5531(Sales)
DELAWARE	Engine Distributors, Inc.	400 University Court Blackwood, NJ 08012	Tel: 1-856-228-7298 1-800-220-2700 Fax: 1-856-228-5657(Parts) 1-856-228-5531(Sales)
DISTRICT OF COLUMBIA	Engine Distributors, Inc.	400 University Court Blackwood, NJ 08012	Tel: 1-856-228-7298 1-800-220-2700 Fax: 1-856-228-5657(Parts) 1-856-228-5531(Sales)
FLORIDA	Highway Equipment & Supply Co. (Main Office)	1016 West Church Street Orlando, FL 32805	Tel: 1-407-843-6310 1-800-827-6495 Fax: 1-407-849-0740
	Highway Equipment & Supply Co.	4850 Collins Rd. Unit 103, Jacksonville, FL 32073	Tel: 1-904-215-6356 1-800-827-3019 Fax: 1-904-215-7109
	Highway Equipment & Supply Co.	6015 U.S. Highway 301 North Tampa, FL 33610	Tel: 1-813-621-9634 1-800-827-9092 Fax: 1-813-621-6873
- (Panhandle)	M&I Engine Company, Inc.	30762 Highway 181 Daphne, AL 36526	Tel: 1-251-626-8080 1-800-633-1834 Fax: 1-251-626-2744
GEORGIA - (Western) - (Central)	Engine Distributors, Inc.	303 Interstate Drive Archdale, NC 27263	Tel: 1-336-434-6616 1-800-220-7080 Fax: 1-336-434-6612
- (Southeastern)	Highway Equipment & Supply Co.	4850 Collins Road, Unit 103 Jacksonville, FL 32073	Tel: 1-904-215-6356 1-800-827-3019 Fax: 1-904-215-7109
HAWAII	Powertech Engines Inc. (Main Office)	2933 E. Hamilton Avenue Fresno, CA 93721	Tel: 1-559-264-1776 1-800-891-1776 Fax: 1-559-264-2933
IDAHO	E.C. Power Systems	4499 Market Street Boise, ID 83705	Tel: 1-208-342-6541 1-800-354-6767 Fax: 1-208-345-4308
ILLINOIS - (Central) - (North Central) - (Northeastern)	Engine Power, Inc.	1830 Executive Drive Oconomowoc, WI 53066	Tel: 1-262-567-8575 1-800-242-2289 Fax: 1-262-567-2556
- (Southern)	Kansas City Power Products, Inc.	80 South James Kansas City, KS 66118	Tel: 1-913-321-7040 1-800-486-5277 Fax: 1-913-321-7341
- (Northwestern)	Anderson Industrial Engines	5532 Center Street Omaha, NE 68106	Tel: 1-402-558-8700 1-800-747-1438 Fax: 1-402-558-8249
INDIANA	Engine Power, Inc.	1830 Executive Drive Oconomowoc, WI 53066	Tel: 1-262-567-8575 1-800-242-2289 Fax: 1-262-567-2556
IOWA	Anderson Industrial Engines	5532 Center Street Omaha, NE 68106	Tel: 1-402-558-8700 1-800-747-1438 Fax: 1-402-558-8249

FORD POWER PRODUCTS SERVICE INFORMATION

North America - United States (Continued)

IF YOU ARE IN	THEN CALL	ADDRESS	TELEPHONE NUMBERS
KANSAS	Kansas City power Products, Inc.	80 South James Kansas City, KS 66118	Tel: 1-913-321-7040 1-800-486-5277 Fax: 1-913-321-7341
KENTUCKY - (Western)	Engine Power, Inc.	1830 Executive Drive Oconomowoc, WI 53066	Tel: 1-262-567-8575 1-800-242-2289 Fax: 1-262-567-2556
- (Eastern)	Pitt Auto Electric Co. Industrial Engine Division	1241 Freedom Road Cranberry Twp. PA 16066	Tel: 1-724-778-8200 US: 1-800-367-3463 Fax: 1-724-778-8206
LOUISIANA	Lightbourn Equipment Co.	13649 Beta Rd., Dallas, TX 75244	Tel: 1-972-233-5151 Fax: 1-972-661-0738
	Lightbourn Equipment Co.	8272 El Rio, Suite 110, Houston, TX 77054	Tel: 1-713-741-2003 Fax: 1-713-741-1909
MAINE	Engine Distributors, Inc.	400 University Court Blackwood, NJ 08012	Tel: 1-856-228-7298 1-800-220-2700 Fax: 1-856-228-5657(Parts) 1-856-228-5531(Sales)
MARYLAND	Engine Distributors, Inc.	400 University Court Blackwood, NJ 08012	Tel: 1-856-228-7298 1-800-220-2700 Fax: 1-856-228-5657(Parts) 1-856-228-5531(Sales)
MASSACHUSETTS	Engine Distributors, Inc.	400 University Court Blackwood, NJ 08012	Tel: 1-856-228-7298 1-800-220-2700 Fax: 1-856-228-5657(Parts) 1-856-228-5531(Sales)
MICHIGAN - (Lower Peninsula)	Engine Center, Inc.	2351 Hilton Road Ferndale, MI 48220	Tel: 1-248-399-0002 1-800-726-8870 Fax: 1-248-399-3142
- (Upper Peninsula)	Engine Power, Inc.	1830 Executive Drive Oconomowoc, WI 53066	Tel: 1-262-567-8575 1-800-242-2289 Fax: 1-262-567-2556
MINNESOTA	Northern Power Products, Inc.	2859 Lexington Avenue S. Eagan, MN 55121	Tel: 1-651-452-8900 1-800-284-6247 Fax: 1-651-452-9182(Sales) 1-651-452-9047(Parts)
MISSISSIPPI - (Northern)	Kansas City Power Products, Inc.	80 South James Kansas City, KS 66118	Tel: 1-913-321-7040 1-800-486-5277 Fax: 1-913-321-7341
- (Southern)	Lightbourn Equipment Co.	8272 El Rio, Suite 110, Houston, TX 77054	Tel: 1-713-741-2003 Fax: 1-713-741-1909
MISSOURI	Kansas City Power Products, Inc.	80 South James Kansas City, KS 66118	Tel: 1-913-321-7040 1-800-486-5277 Fax: 1-913-321-7341
MONTANA - (Eastern) - (Central)	Industrial Power Systems, Inc. Engine Division	3233 Oakland Street Aurora, CO 80010	Tel: 1-303-360-7110 1-800-678-3673 Fax: 1-303-360-7519
- (Western)	E.C. Power Systems	4499 Market Street Boise, ID 83705	Tel: 1-208-342-6541 1-800-354-6767 Fax: 1-208-345-4308
NEBRASKA	Anderson Industrial Engines	5532 Center Street Omaha, NE 68106	Tel: 1-402-558-8700 1-800-747-1438 Fax: 1-402-558-8249

FORD POWER PRODUCTS SERVICE INFORMATION

North America - United States (Continued)

IF YOU ARE IN	THEN CALL	ADDRESS	TELEPHONE NUMBERS
NEVADA	Powertech Engines Inc.	2933 E. Hamilton Avenue Fresno, CA 93721	Tel: 1-559-264-1776 1-800-891-1776 Fax: 1-559-264-2933
NEW HAMPSHIRE	Engine Distributors, Inc.	400 University Court Blackwood, NJ 08012	Tel: 1-856-228-7298 1-800-220-2700 Fax: 1-856-228-5657(Parts) 1-856-228-5531(Sales)
NEW JERSEY	Engine Distributors, Inc.	400 University Court Blackwood, NJ 08012	Tel: 1-856-228-7298 1-800-220-2700 Fax: 1-856-228-5657(Parts) 1-856-228-5531(Sales)
NEW MEXICO - (Southern)	E.C. Power Systems	8360 E. Via de Ventura Blvd., Suite L-200 Scottsdale, AZ 85258	Tel: 1-480-905-5585 Fax: 1-503-224-3907
- (Northern)	Industrial Power Systems, Inc. Engine Division	3233 Oakland Street Aurora, CO 80010	Tel: 1-303-360-7110 1-800-678-3673 Fax: 1-303-360-7519
NEW YORK - (New York City) - (Nassau Co.) - (Suffolk Co.)	Engine Distributors, Inc.	400 University Court Blackwood, NJ 08012	Tel: 1-856-228-7298 1-800-220-2700 Fax: 1-856-228-5657(Parts) 1-856-228-5531(Sales)
- (Upstate) - (Hudson Valley)	Pitt Auto Electric Co. Industrial Engine Division	1241 Freedom Road Cranberry Twp. PA 16066	Tel: 1-724-778-8200 US: 1-800-367-3463 Fax: 1-724-778-8206
NORTH CAROLINA	Engine Distributors, Inc.	303 Interstate Drive Archdale, NC 27263	Tel: 1-336-434-6616 1-800-220-7080 Fax: 1-336-434-6612
NORTH DAKOTA	Northern Power Products, Inc.	2859 Lexington Avenue S. Eagan, MN 55121	Tel: 1-651-452-8900 1-800-284-6247 Fax: 1-651-452-9182(Sales) 1-651-452-9047(Parts)
OHIO - (Central)	Graham Ford, Inc.	707 W. Broad Street Columbus, OH 43216	Tel: 1-614-464-6006 1-800-837-7070 Fax: 1-614-464-6013
- (Northern)	North Coast Ford Industrial, Inc.	11885 Bellaire Road Cleveland, OH 44135	Tel: 1-216-251-5800 1-800-423-1316 Fax: 1-216-251-8675
- (Southern)	Pitt Auto Electric Co. Industrial Engine Division	1241 Freedom Road Cranberry Twp. PA 16066	Tel: 1-724-778-8200 US: 1-800-367-3463 Fax: 1-724-778-8206
OKLAHOMA - (Except Panhandle)	Kansas City Power Products	7714 Melrose Lane Oklahoma City, OK 73127	Tel: 1-405-491-9491 1-800-654-3673 Fax: 1-405-491-9495
- (Panhandle)	Lightbourn Equipment Co.	13649 Beta Road, Dallas, TX 75244	Tel: 1-972-233-5151 Fax: 1-972-661-0738
OREGON	E.C. Power Systems	1805 N.W. 21st Avenue Portland, OR 97210	Tel: 1-503-224-3623 1-800-452-1511 Fax: 1-503-224-3907

FORD POWER PRODUCTS SERVICE INFORMATION

North America - United States (Continued)

IF YOU ARE IN	THEN CALL	ADDRESS	TELEPHONE NUMBERS
PENNSYLVANIA - (Eastern).	Engine Distributors, Inc.	400 University Court Blackwood, NJ 08012	Tel: 1-856-228-7298 1-800-220-2700 Fax: 1-856-228-5657(Parts) 1-856-228-5531(Sales)
- (Western).	Pitt Auto Electric Co. Industrial Engine Division	1241 Freedom Road Cranberry Twp. PA 16066	Tel: 1-724-778-8200 US: 1-800-367-3463 Fax: 1-724-778-8206
RHODE ISLAND	Engine Distributors, Inc.	400 University Court Blackwood, NJ 08012	Tel: 1-856-228-7298 1-800-220-2700 Fax: 1-856-228-5657(Parts) 1-856-228-5531(Sales)
SOUTH CAROLINA	Engine Distributors, Inc.	303 Interstate Drive Archdale, NC 27263	Tel: 1-336-434-6616 1-800-220-7080 Fax: 1-336-434-6612
SOUTH DAKOTA	Northern Power Products, Inc.	2859 Lexington Avenue S. Eagan, MN 55121	Tel: 1-651-452-8900 1-800-284-6247 Fax: 1-651-452-9182(Sales) 1-651-452-9047(Parts)
TENNESSEE - (Central) - (Eastern)	M&I Engine Company, Inc.	30762 Highway 181 Daphne, AL 36526	Tel: 1-251-626-8080 1-800-633-1834 Fax: 1-251-626-2744
- (Western)	Kansas City power Products, Inc.	80 South James Kansas City, KS 66118	Tel: 1-913-321-7040 1-800-486-5277 Fax: 1-913-321-7341
TEXAS	Lightbourn Equipment Co.	13649 Beta Rd., Dallas, TX 75244	Tel: 1-972-233-5151 Fax: 1-972-661-0738
	Lightbourn Equipment Co.	8272 El Rio, Suite 110, Houston, TX 77054	Tel: 1-713-741-2003 Fax: 1-713-741-1909
UTAH - (Northern)	Industrial Power Systems, Inc. Engine Division	2492 W. Custer Road Salt Lake City, UT 84104	Tel: 1-801-908-8099 1-800-678-3673 Fax: 1-303-360-7519
- (Southern)	E.C. Power Systems	3683 West 2270 South, Suite A, Salt Lake City, UT 84120	Tel: 1-801-886-1424 1-800-462-3370 Fax: 1-801-886-1464
VERMONT	Engine Distributors, Inc.	400 University Court Blackwood, NJ 08012	Tel: 1-856-228-7298 1-800-220-2700 Fax: 1-856-228-5657(Parts) 1-856-228-5531(Sales)
VIRGINIA - (Central) - (Eastern)	Engine Distributors, Inc.	400 University Court Blackwood, NJ 08012	Tel: 1-856-228-7298 1-800-220-2700 Fax: 1-856-228-5657(Parts) 1-856-228-5531(Sales)
- (Southwestern)	Pitt Auto Electric Co. Industrial Engine Division	1241 Freedom Road Cranberry Twp. PA 16066	Tel: 1-724-778-8200 US: 1-800-367-3463 Fax: 1-724-778-8206
WASHINGTON	E.C. Power Systems	6051 S. 194th Street Kent, WA 98032	Tel: 1-253-872-7011 US 1-800-247-5899 Fax: 1-253-872-6947

FORD POWER PRODUCTS SERVICE INFORMATION

North America - United States (Continued)

IF YOU ARE IN	THEN CALL	ADDRESS	TELEPHONE NUMBERS
WEST VIRGINIA	Pitt Auto Electric Co. Industrial Engine Division	1241 Freedom Road Cranberry Twp. PA 16066	Tel: 1-724-778-8200 US: 1-800-367-3463 Fax: 1-724-778-8206
WISCONSIN - (Eastern) - (Central)	Engine Power, Inc.	1830 Executive Drive Oconomowoc, WI 53066	Tel: 1-262-567-8575 1-800-242-2289 Fax: 1-262-567-2556
- (Northwestern)	Northern Power Products, Inc.	2859 Lexington Avenue S. Eagan, MN 55121	Tel: 1-651-452-8900 1-800-284-6247 Fax: 1-651-452-9182(Sales) 1-651-452-9047(Parts)
WYOMING	Industrial Power Systems, Inc. Engine Division	3233 Oakland Street Aurora, CO 80010	Tel: 1-303-360-7110 1-800-678-3673 Fax: 1-303-360-7519